

Co-Planar Electrode Configuration

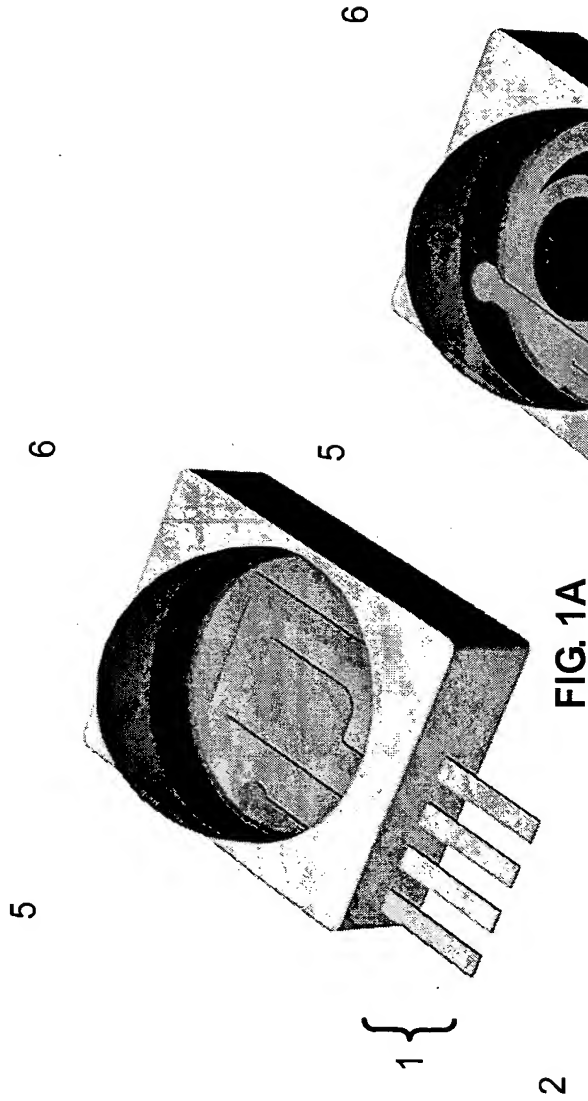
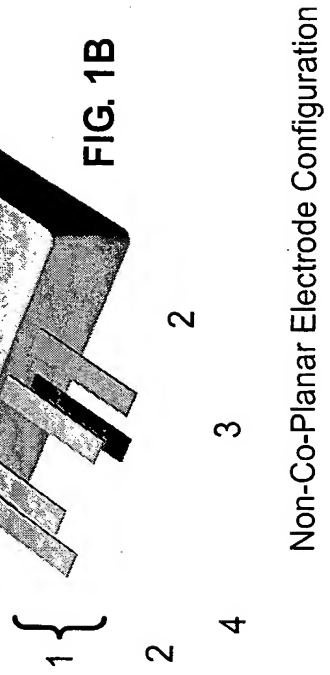


FIG. 1B



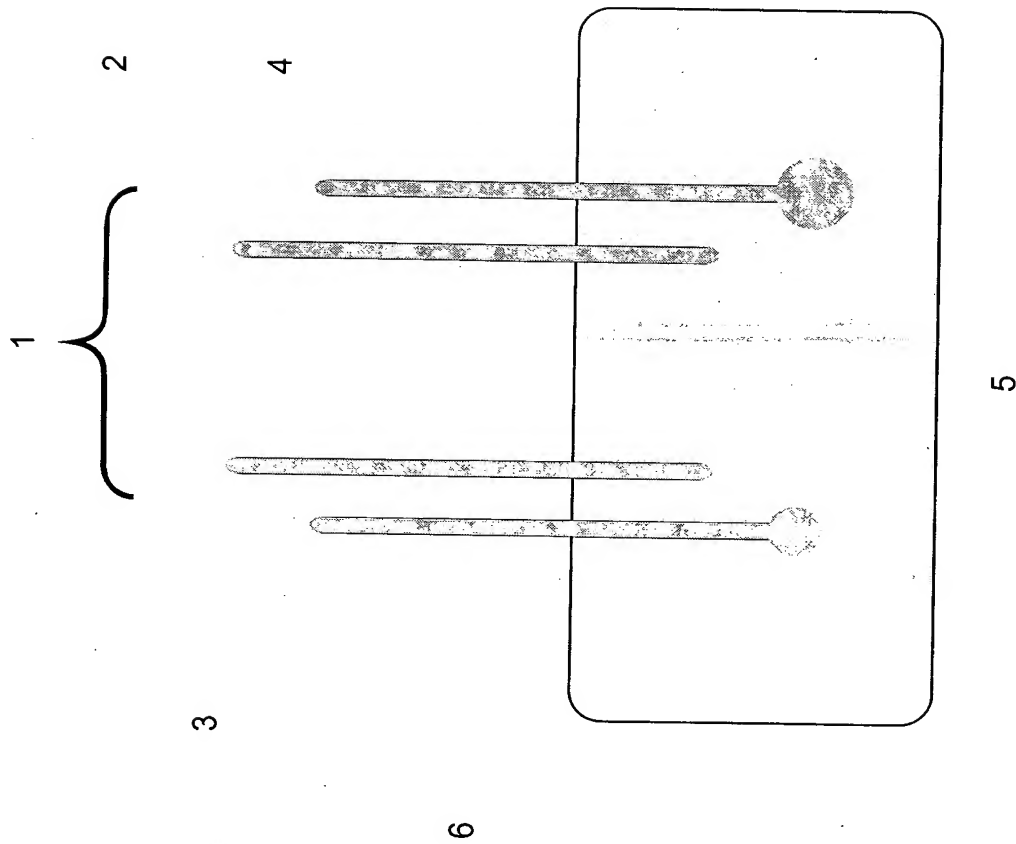
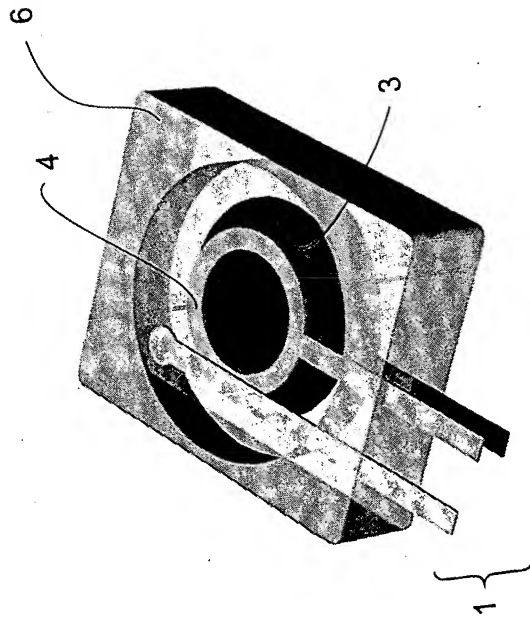


FIG. 2



2 FIG. 3

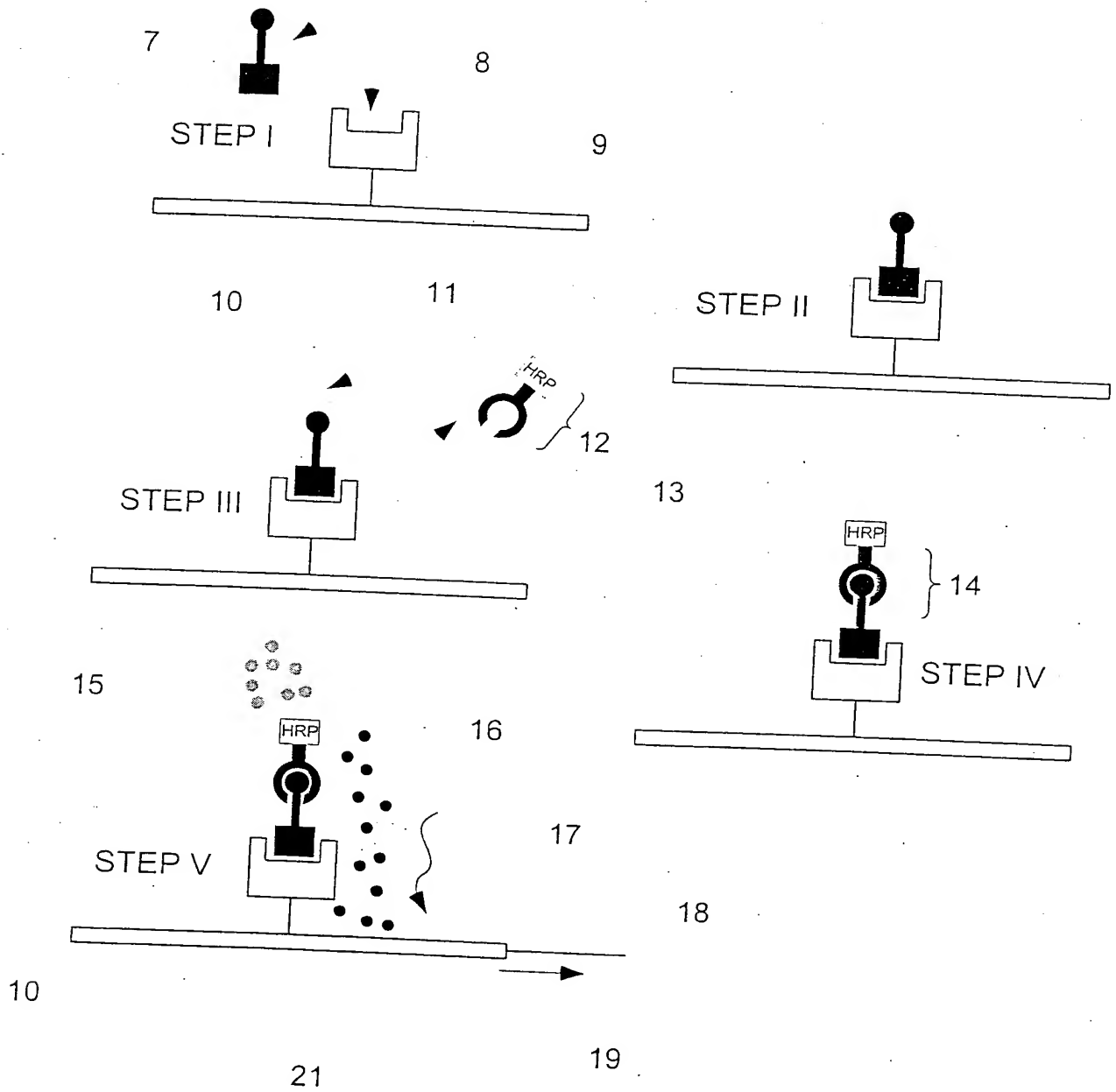


FIG. 4

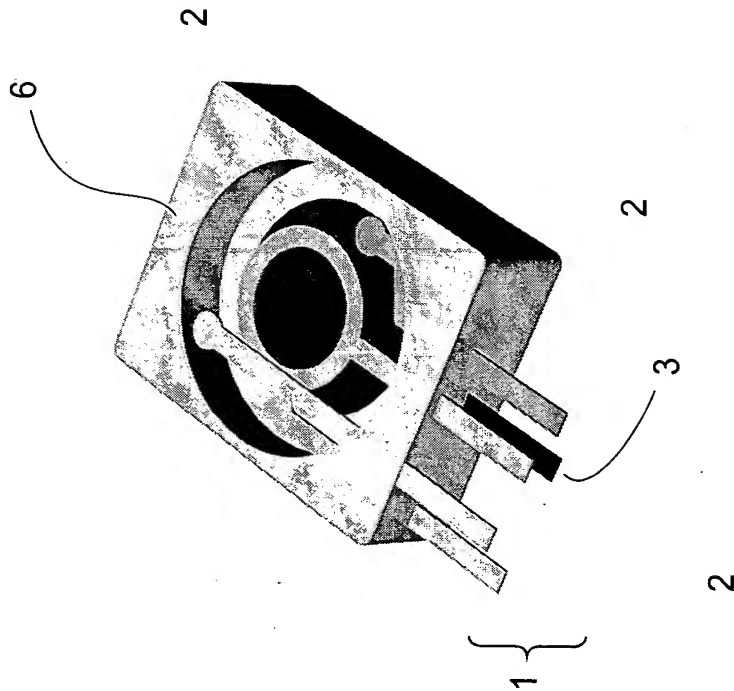
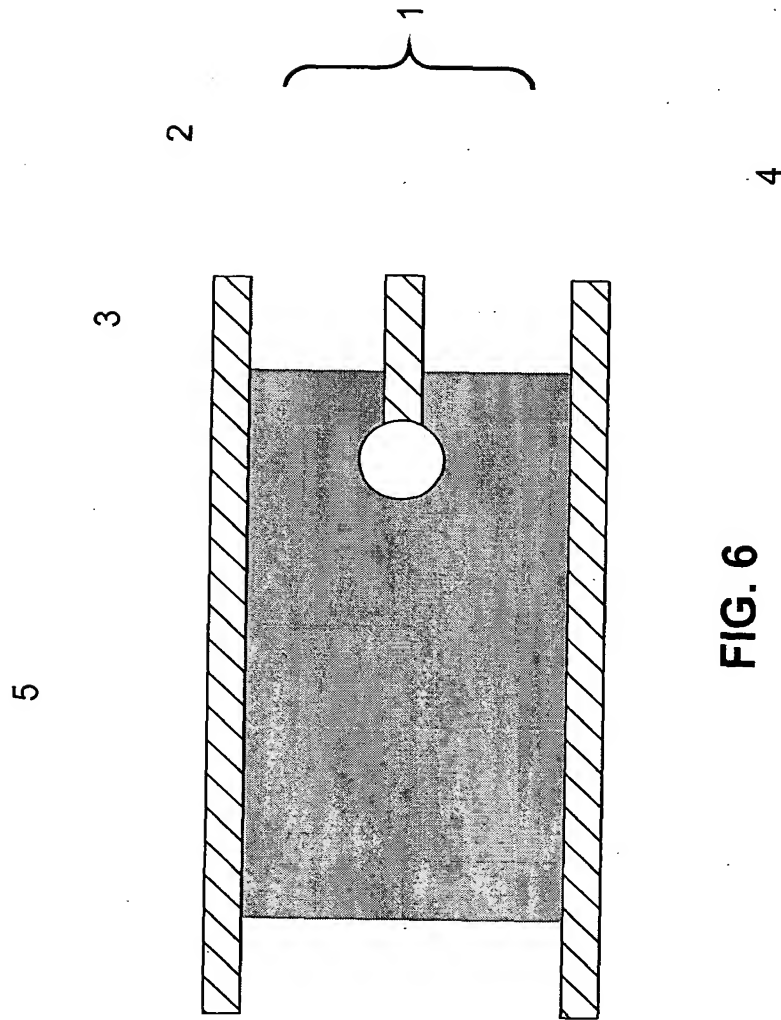
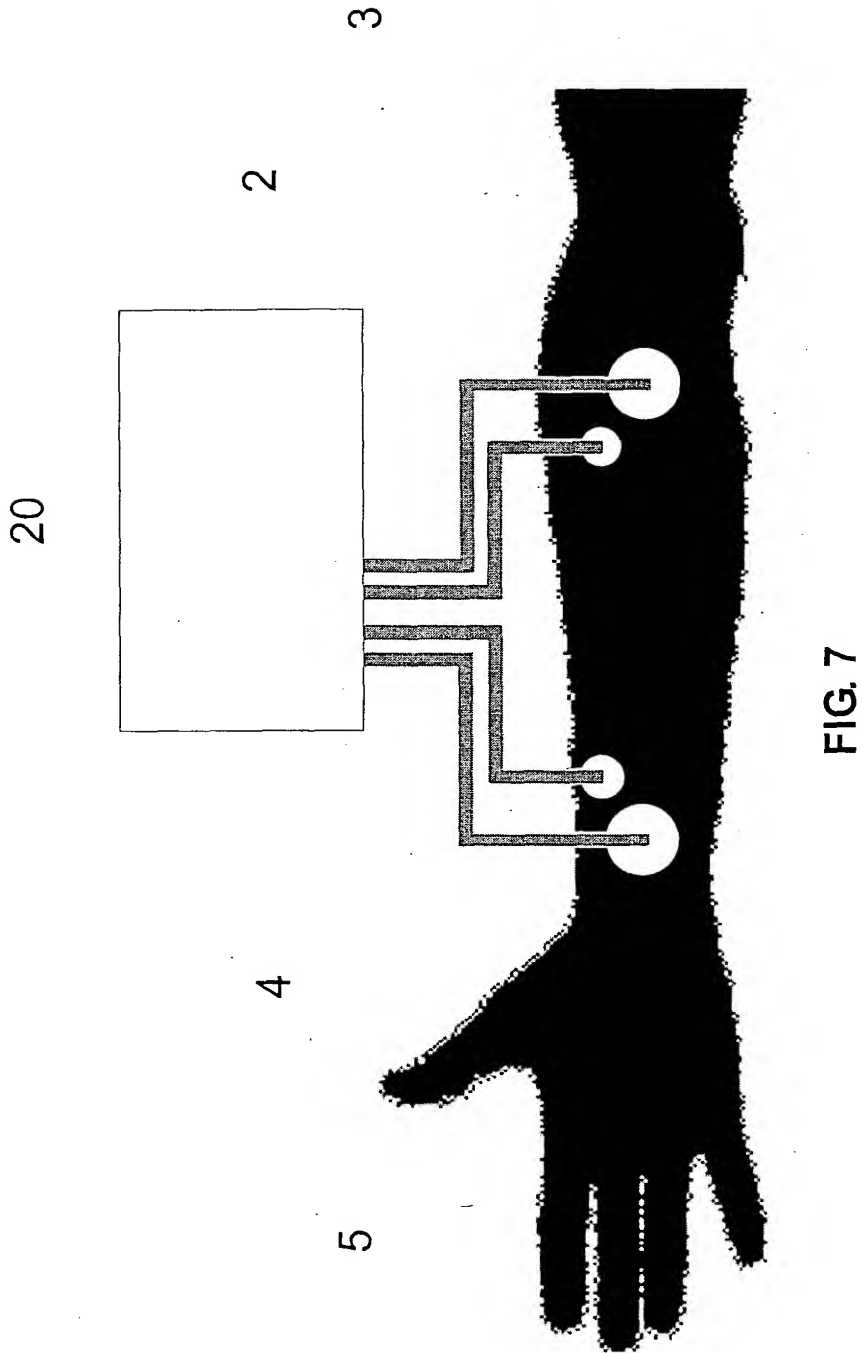


FIG. 5





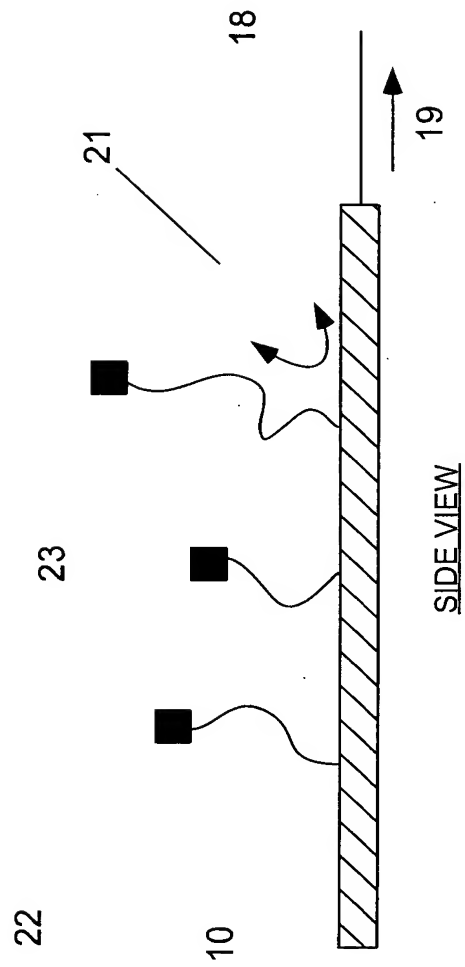


FIG. 8

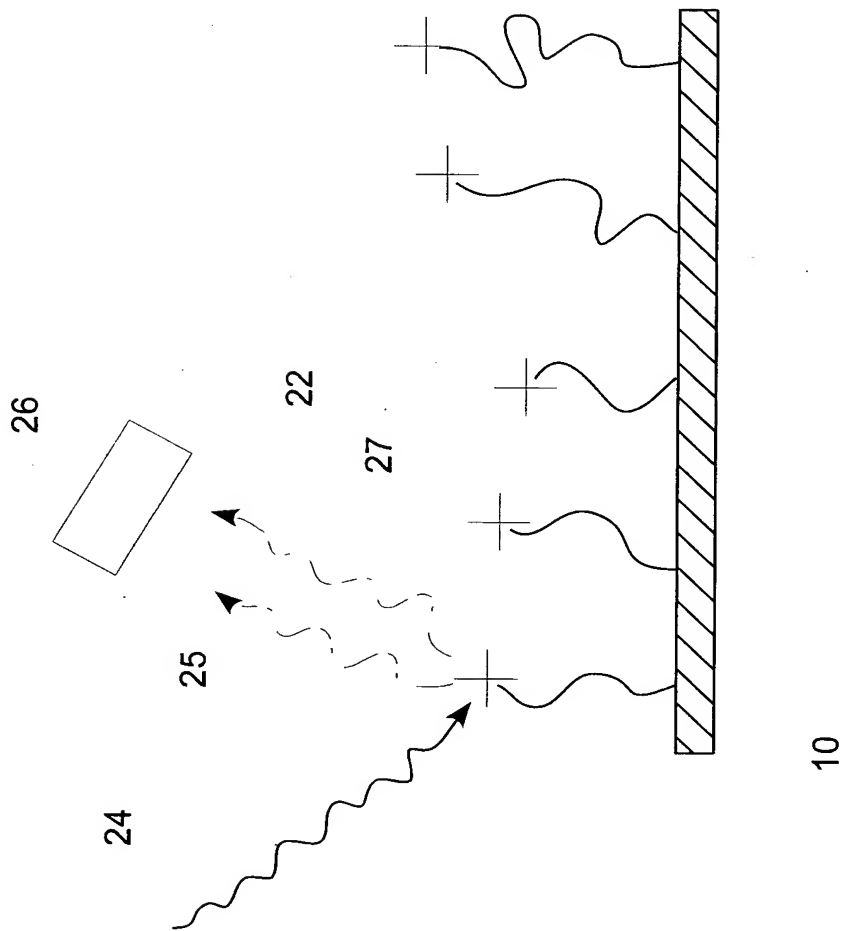


FIG. 9

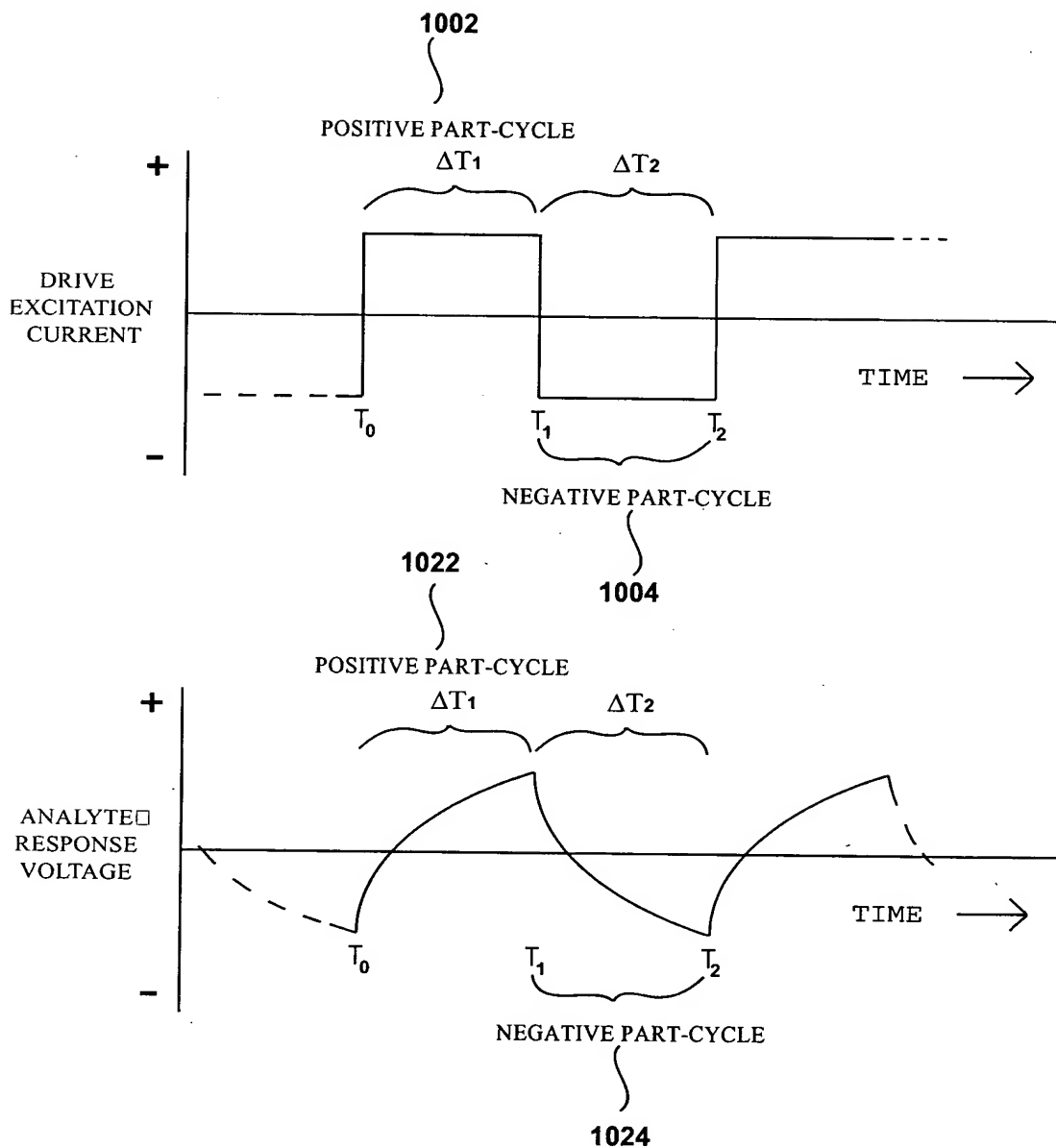


FIGURE 10
Excitation and Response Waveforms

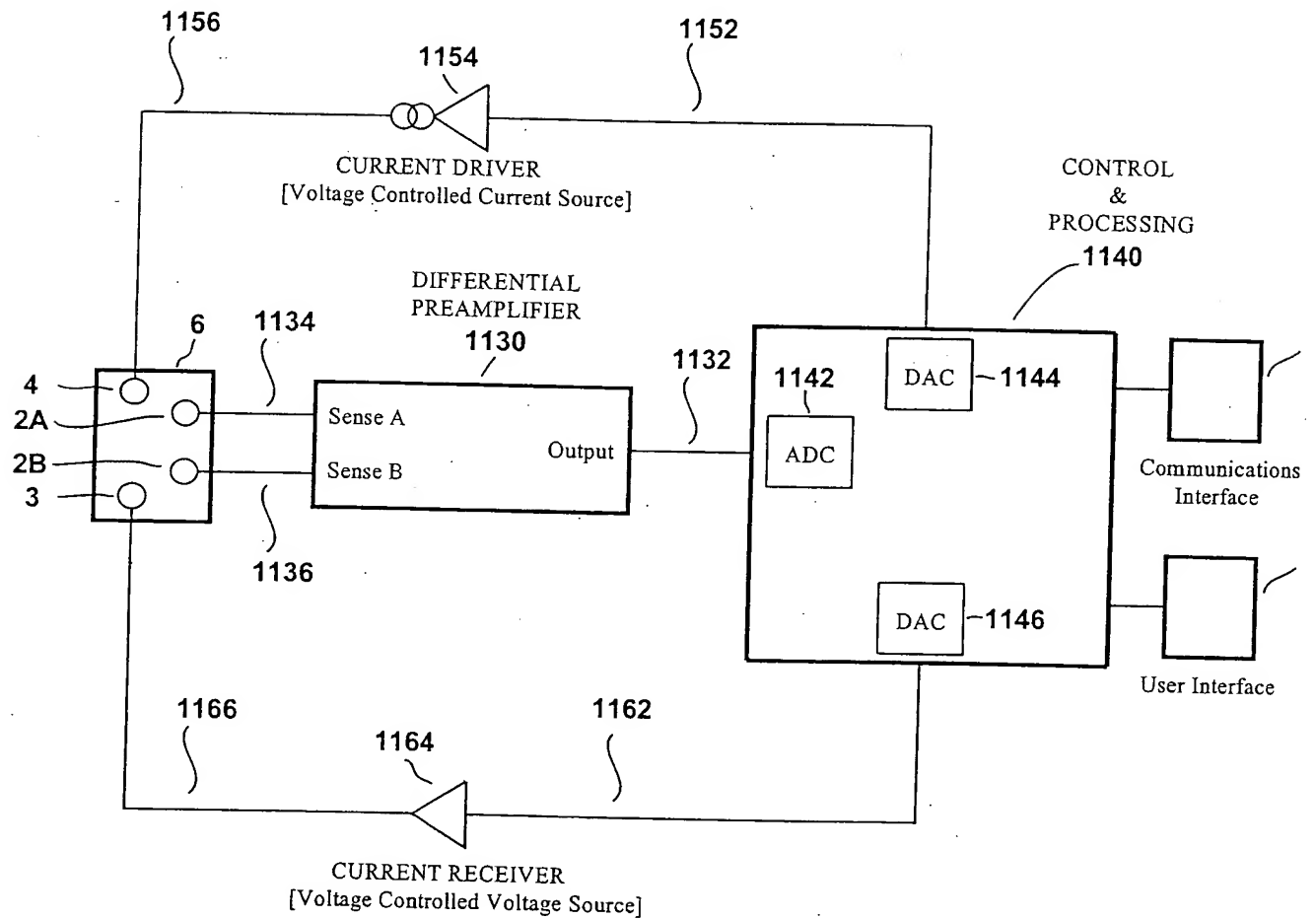


FIGURE 11
Galvanodynamic Test System

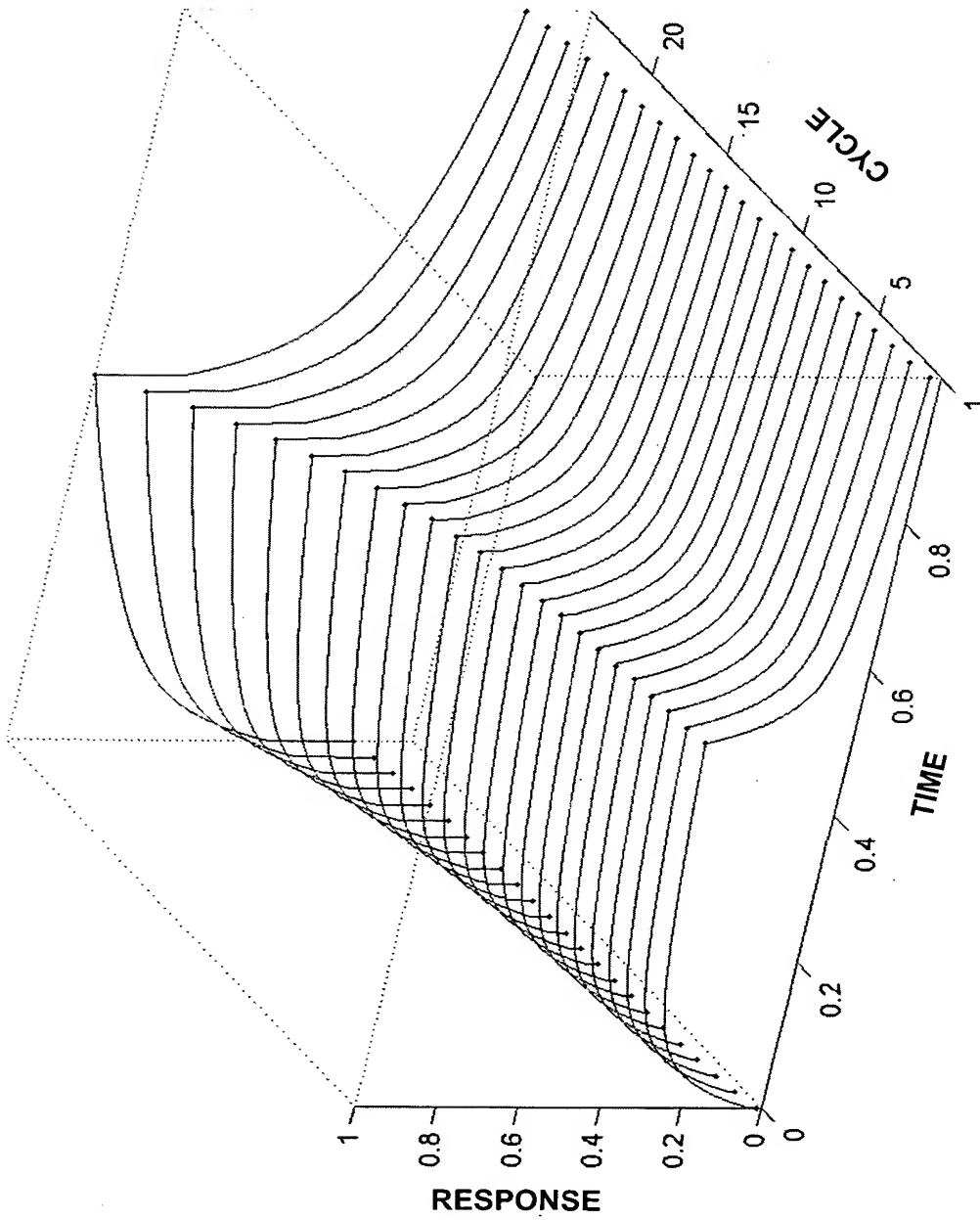


FIG. 12

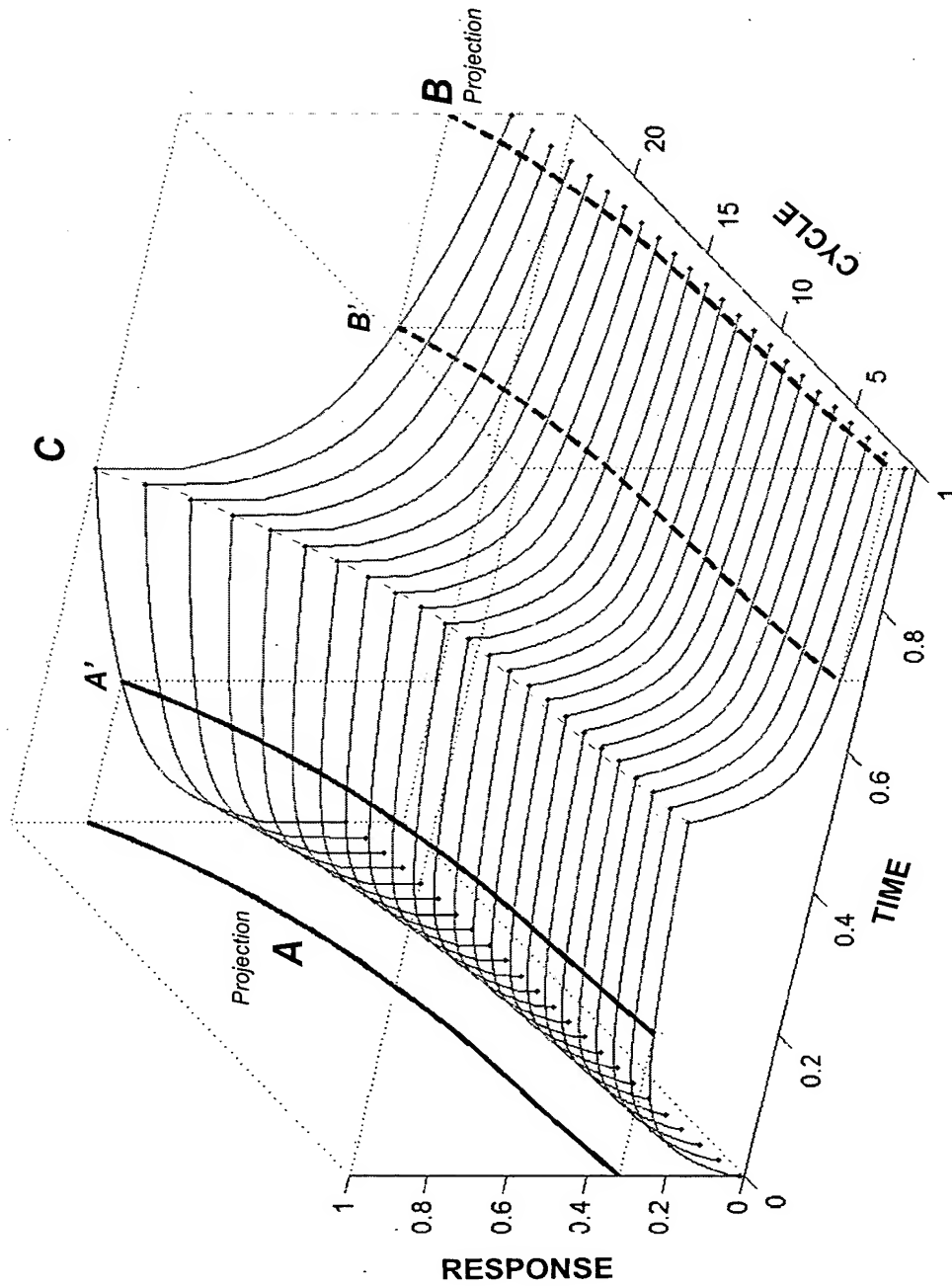


FIG. 13

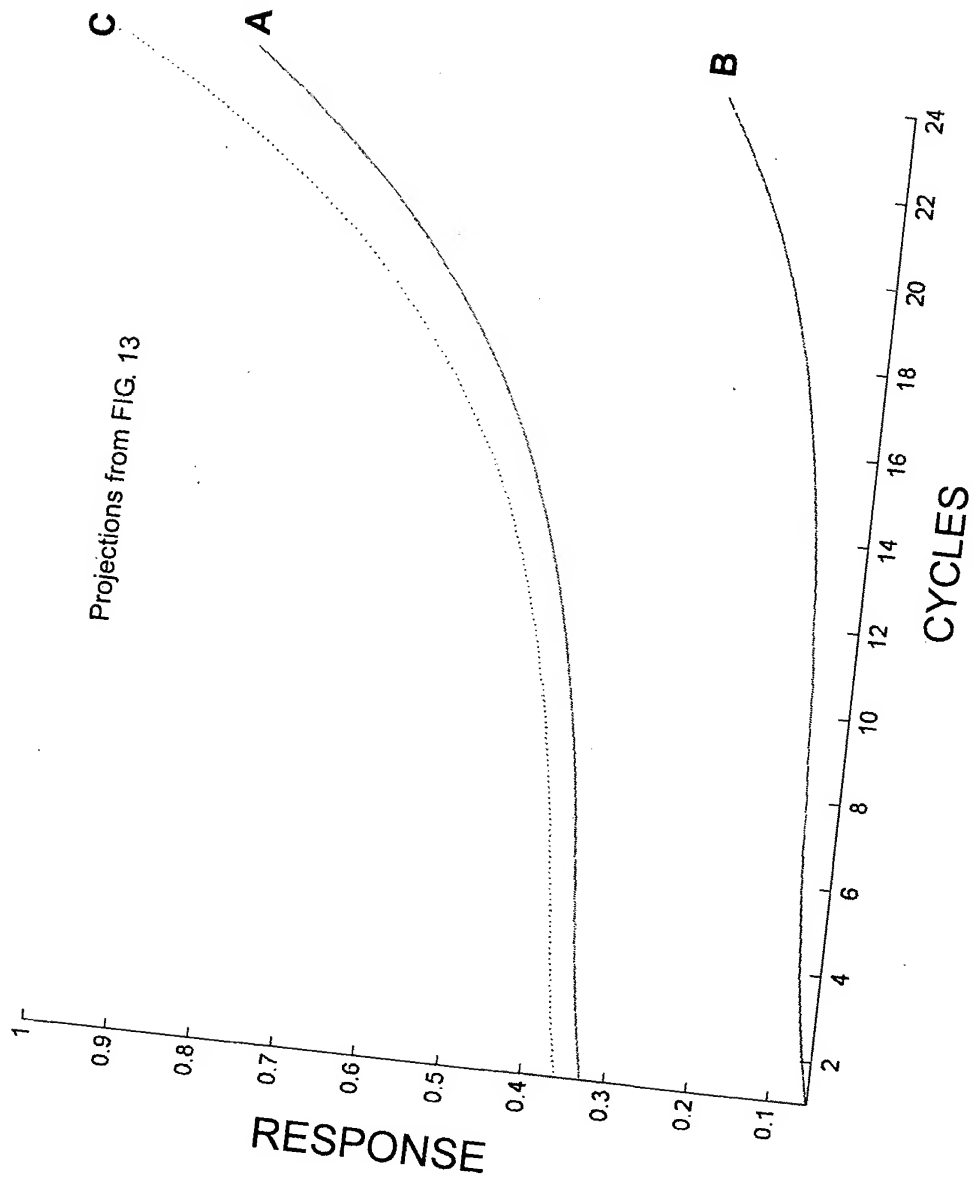


FIG. 14

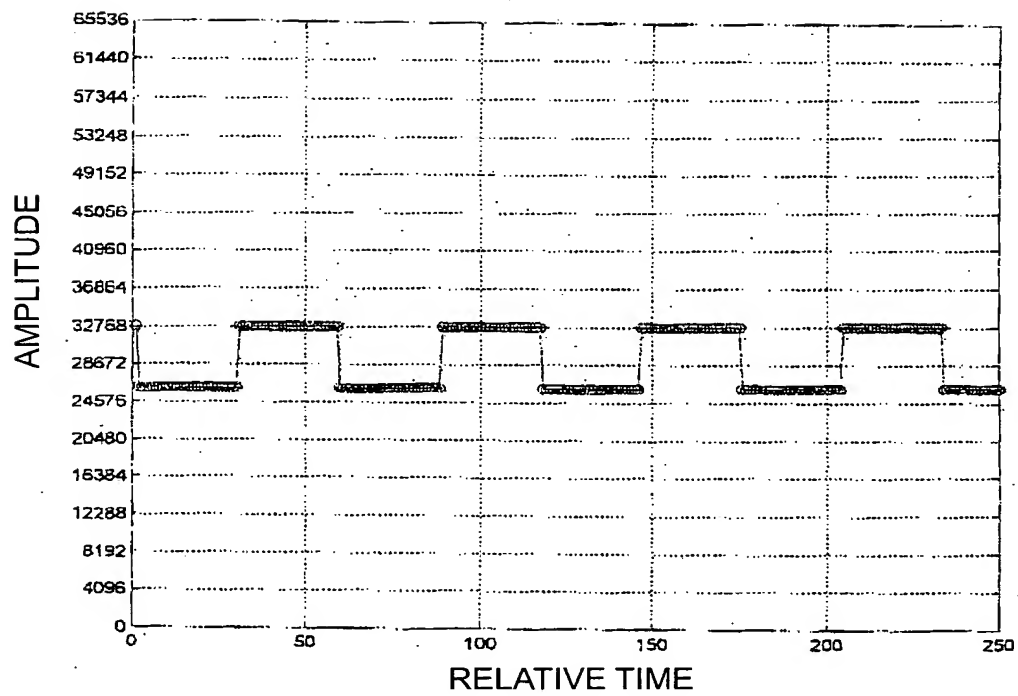


FIG. 15

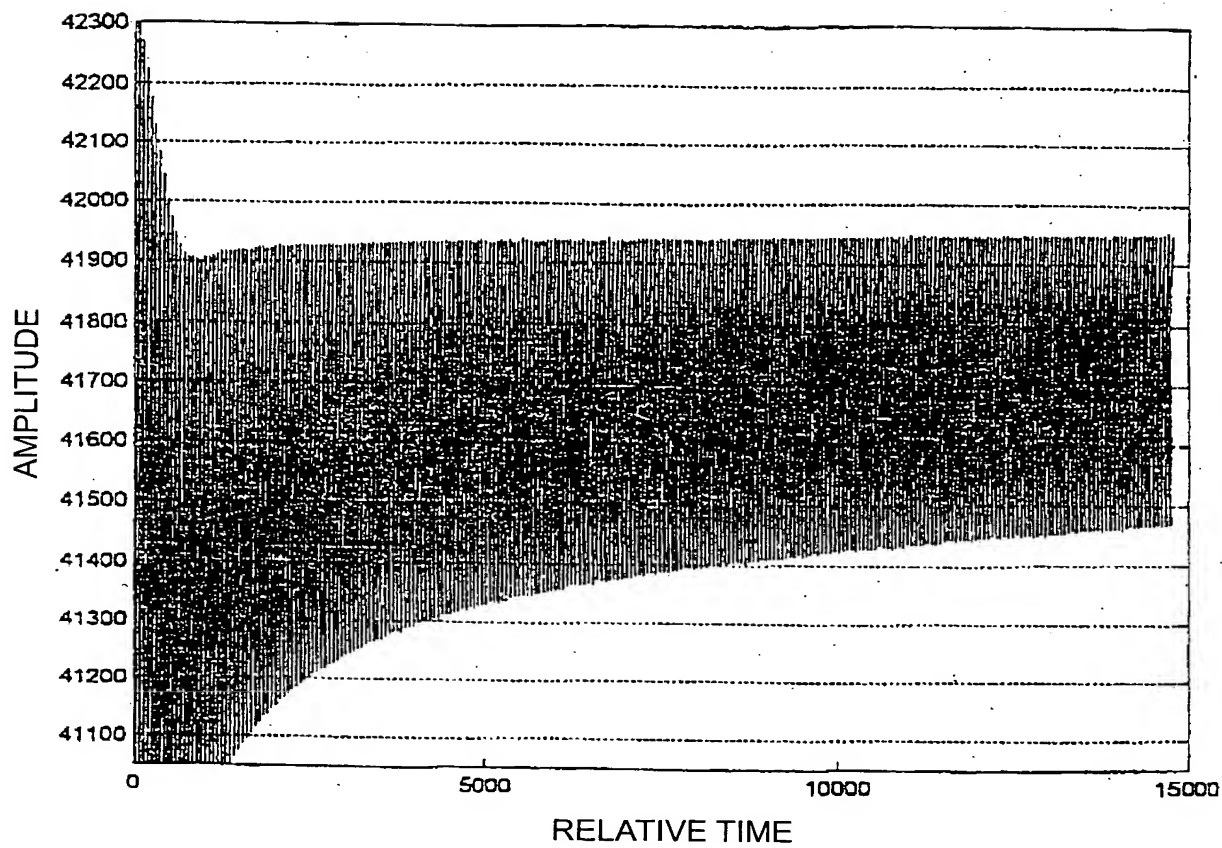


FIG. 16A

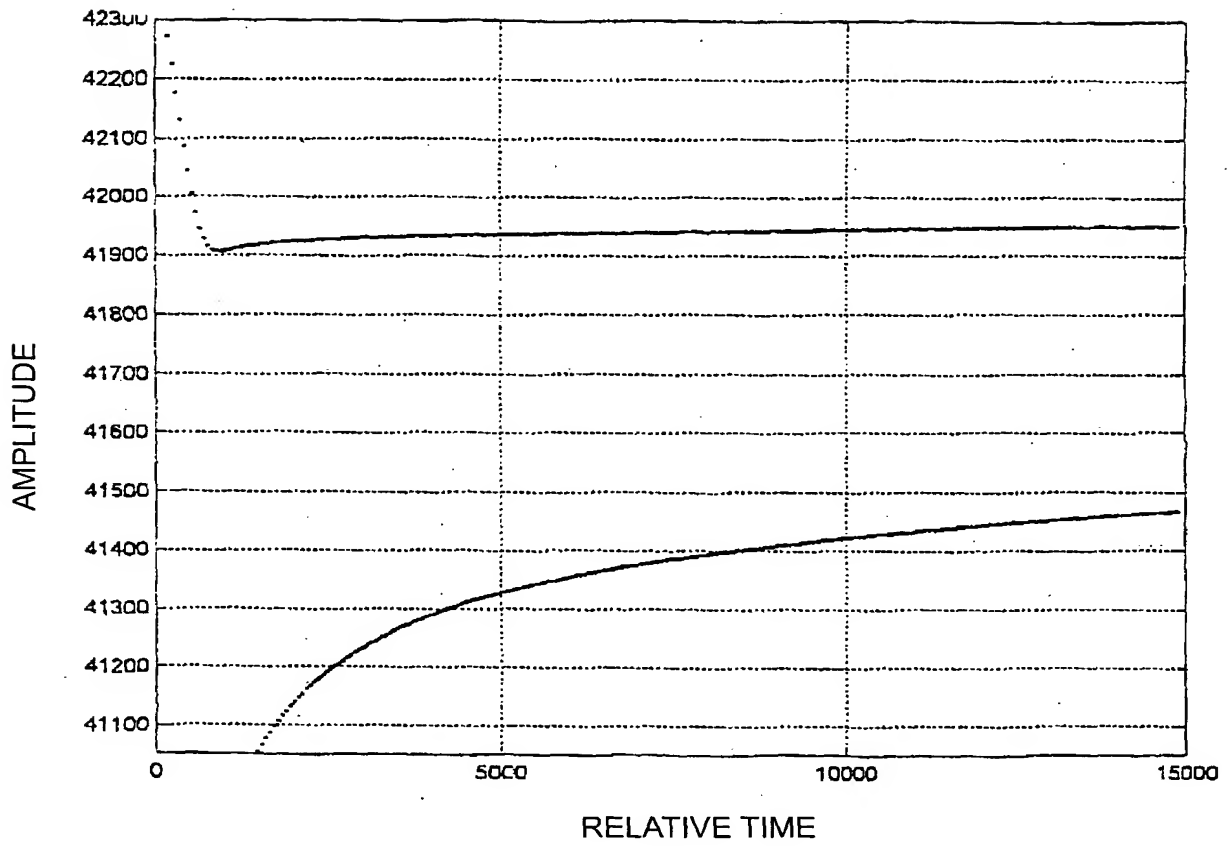


FIG. 16B

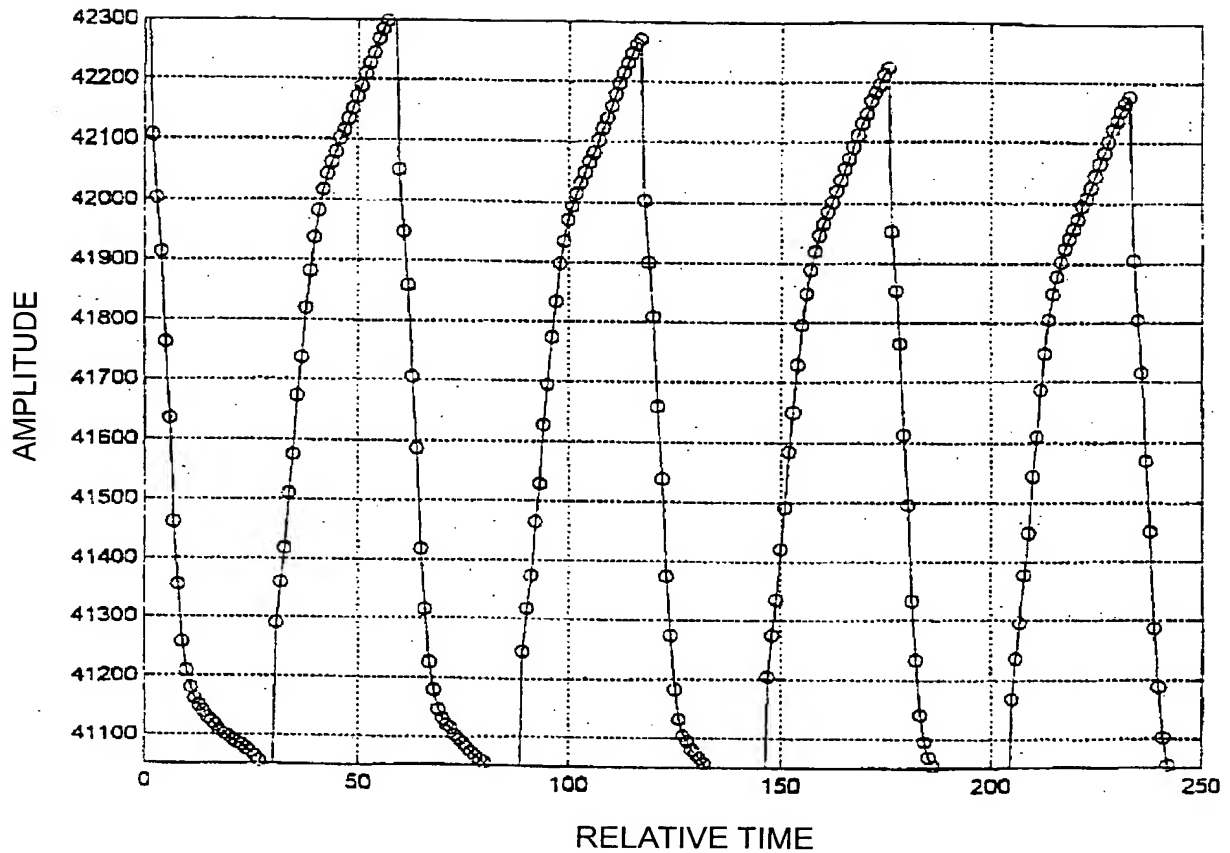


FIG. 16C

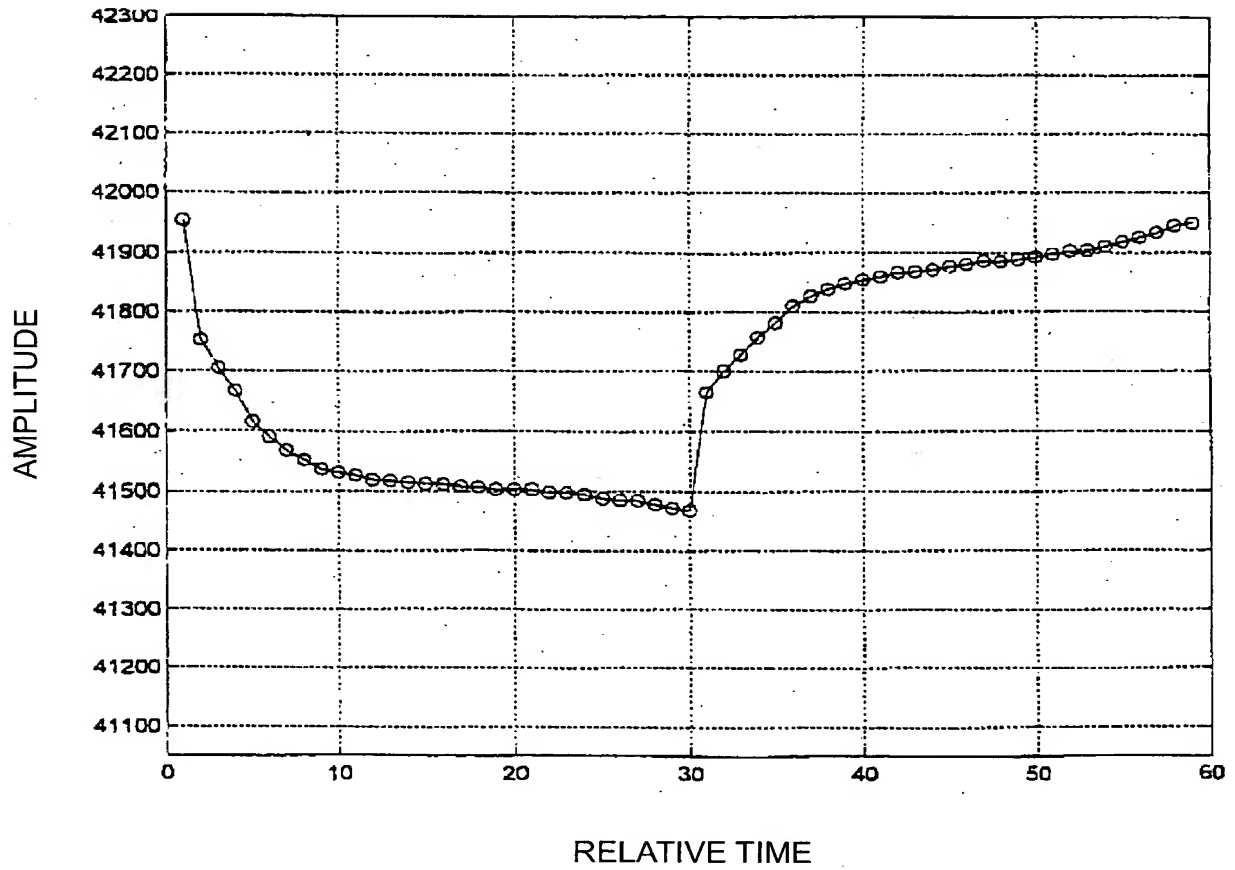


FIG. 16D

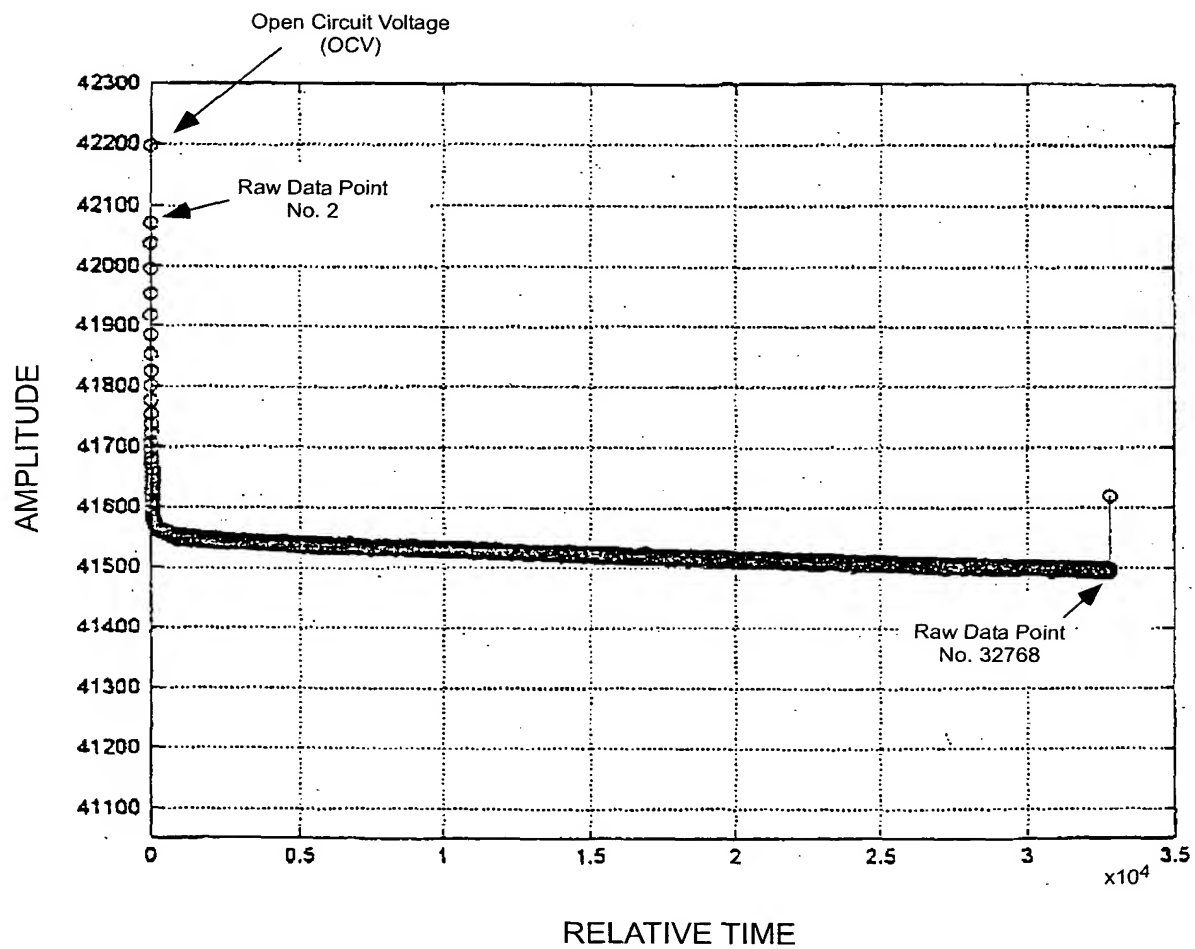
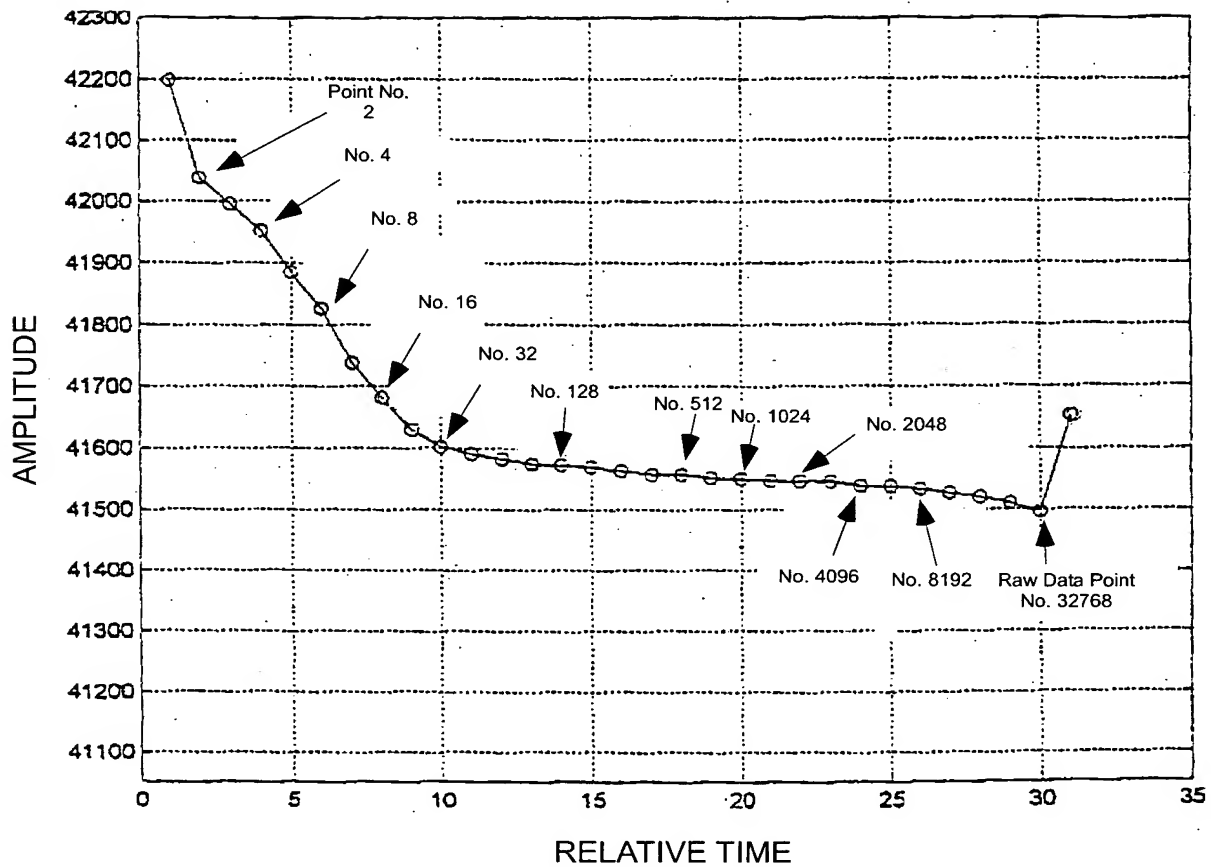


FIG. 17A



Exponentially Decimated Data Point
First Discharge Pulse (32,768 Raw Data Points)

FIG. 17B

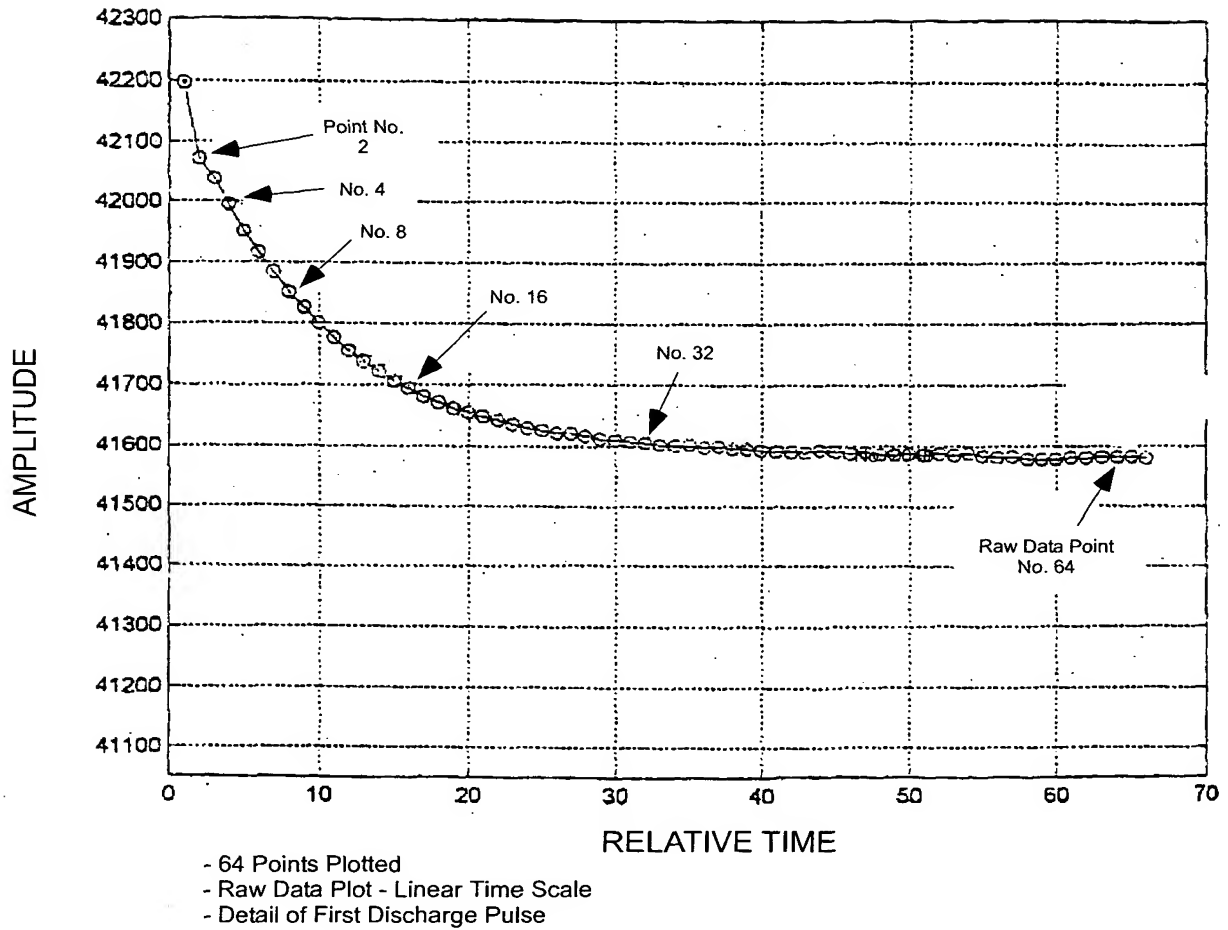


FIG. 17C

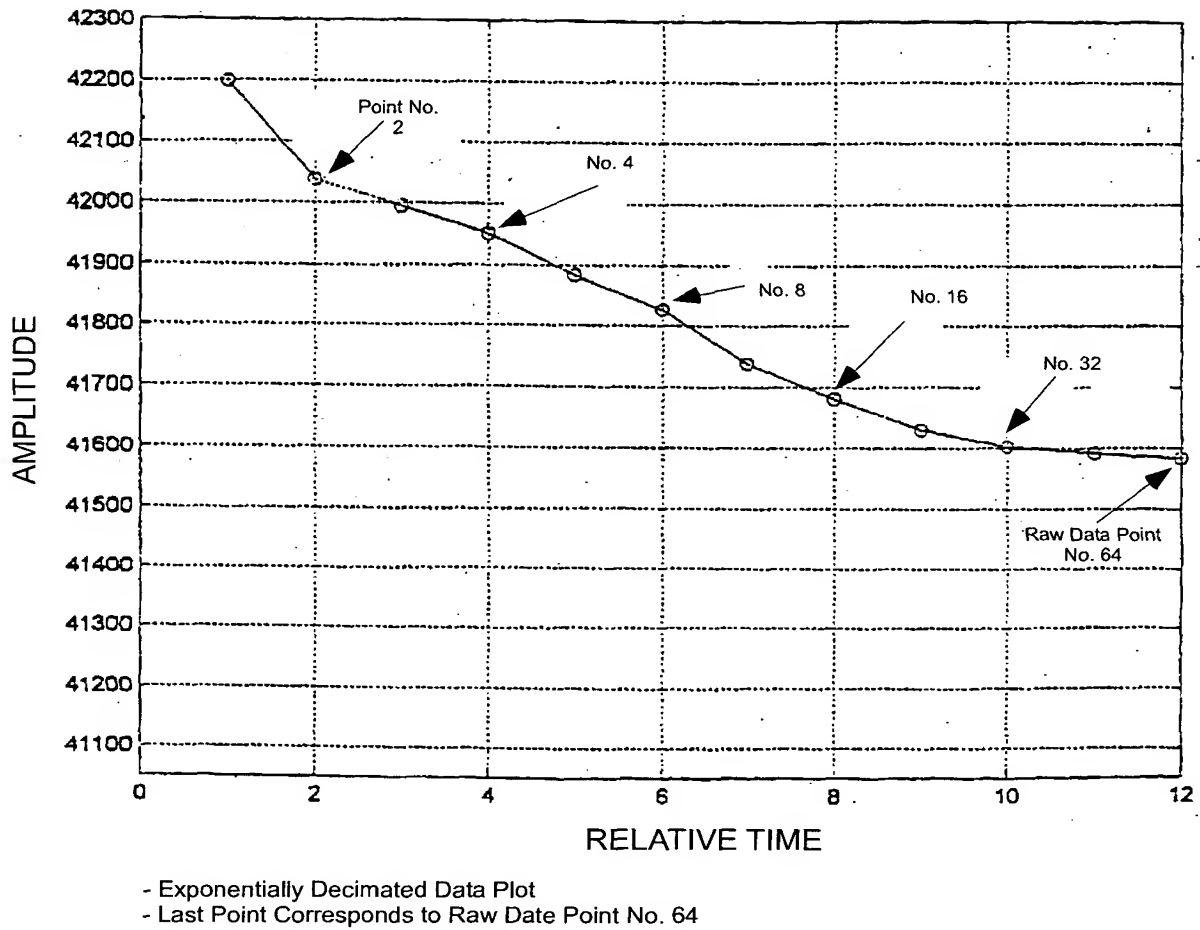


FIG. 17D

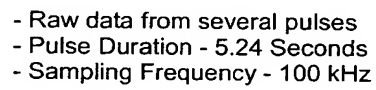


FIG. 18A

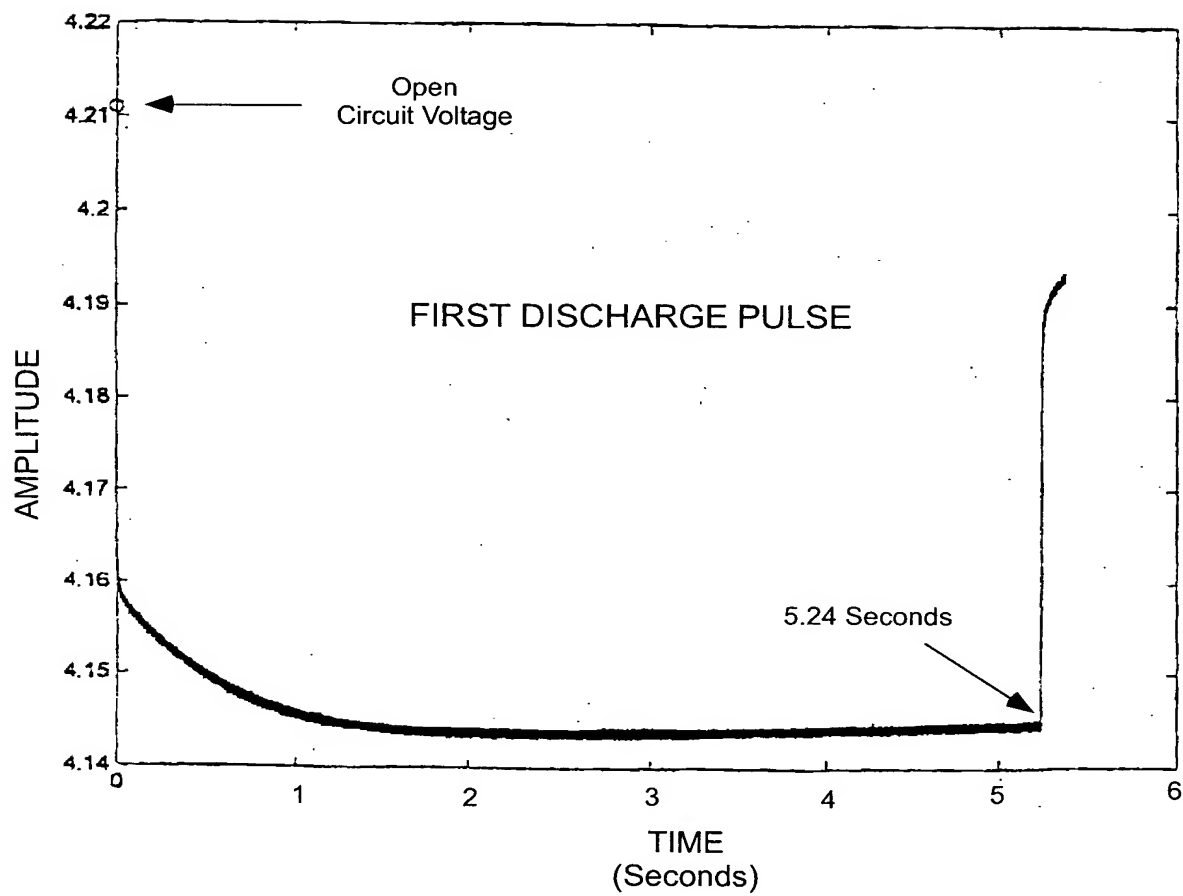


FIG. 18B

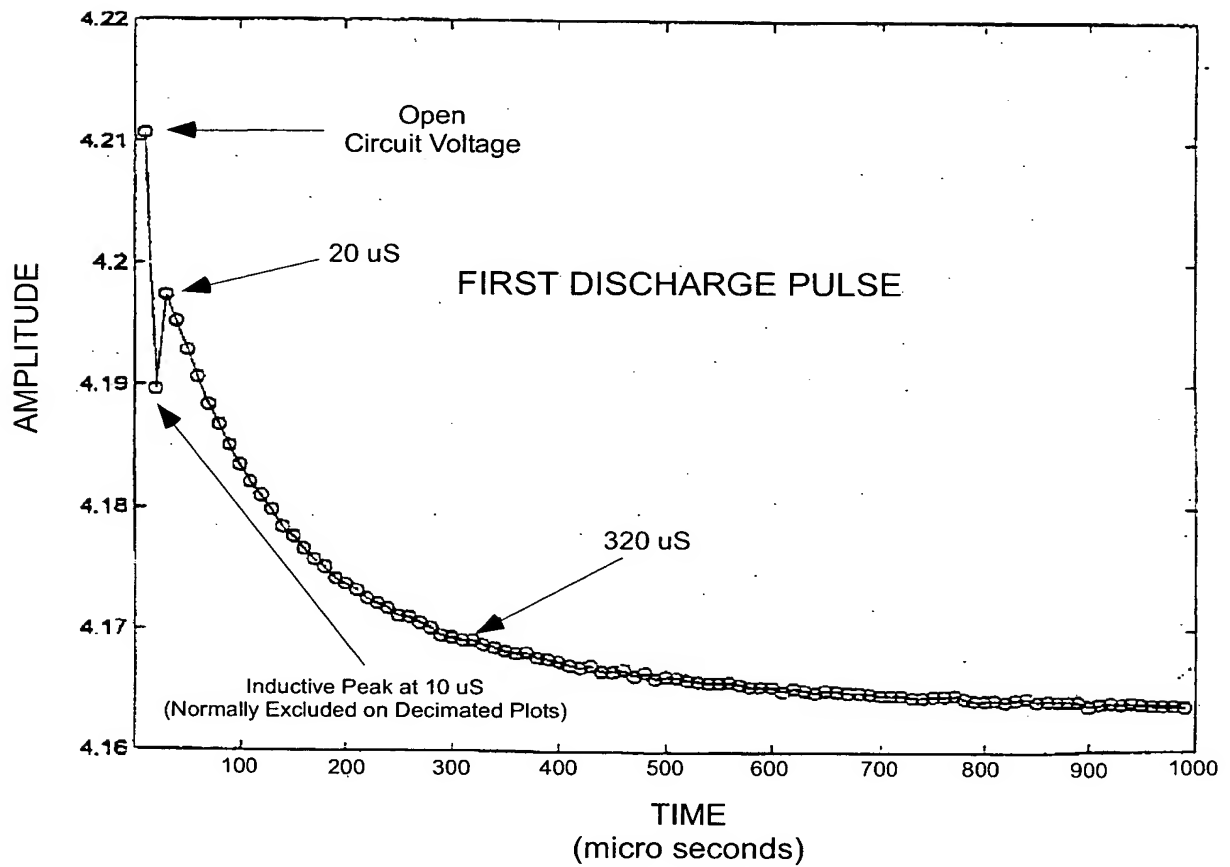
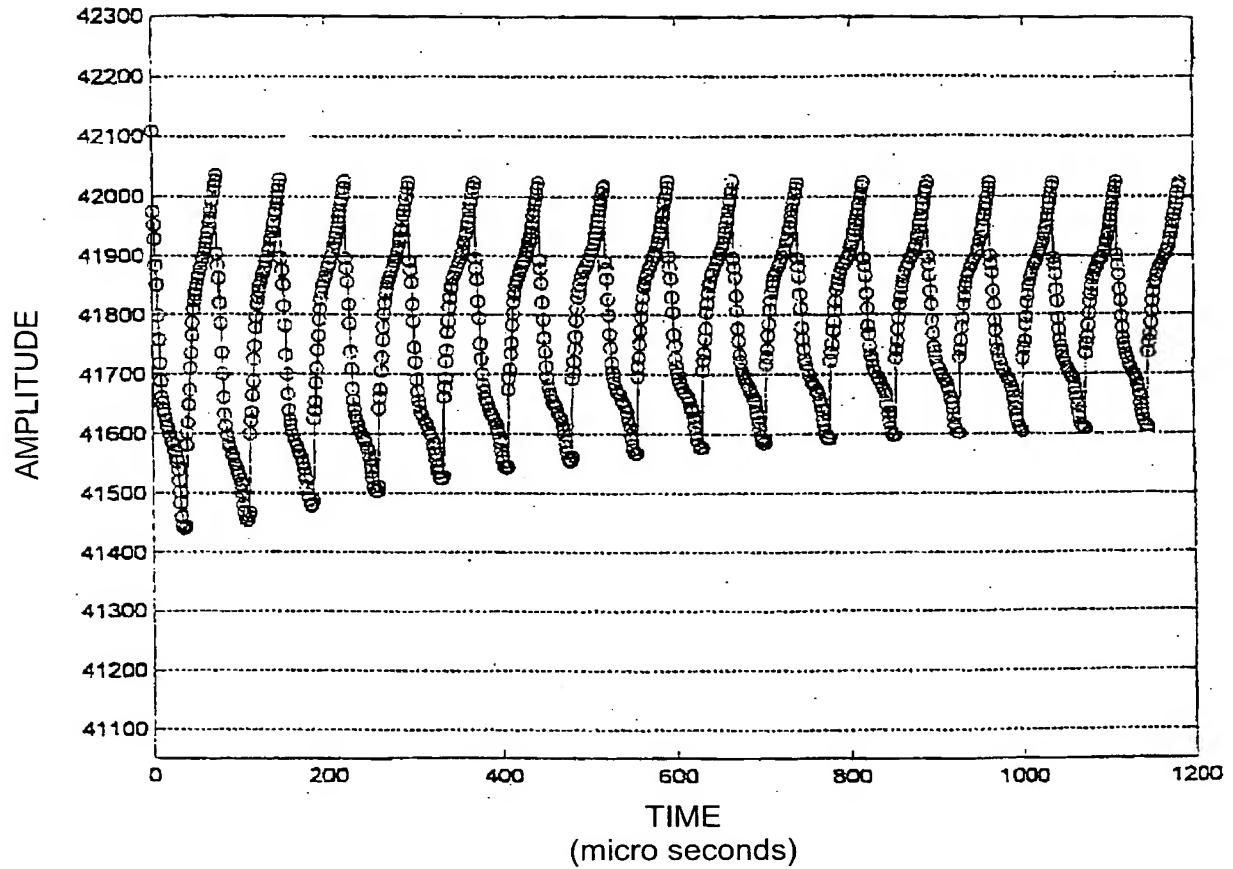


FIG. 18C



- Exponentially Decimated Data - 16 Full Cycles
- Sampling Frequency: 100 kHz
- Pulse Duration - 5.24 Seconds

FIG. 18D

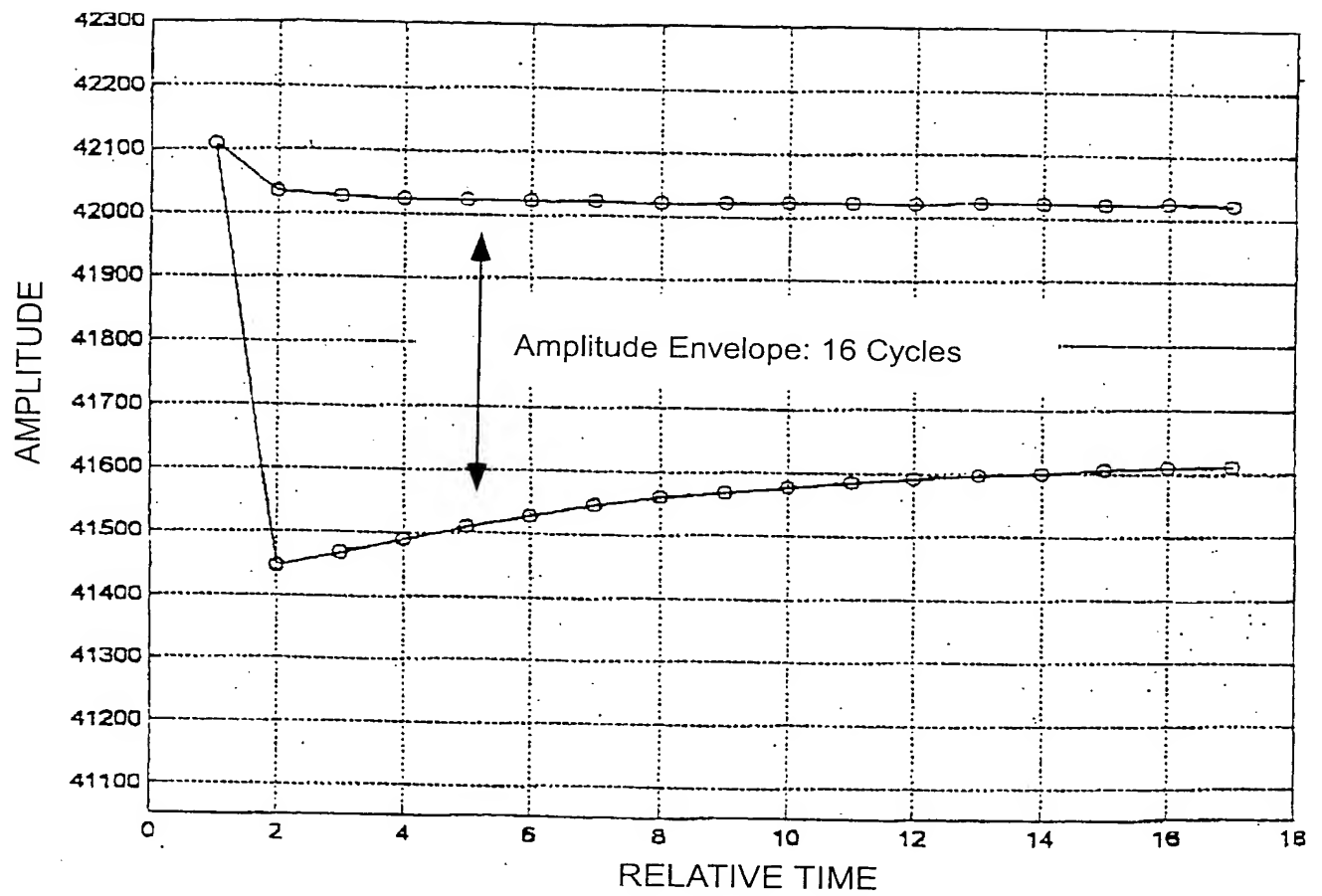


FIG. 18E

FIRST DISCHARGE PULSE AND RECOVERY

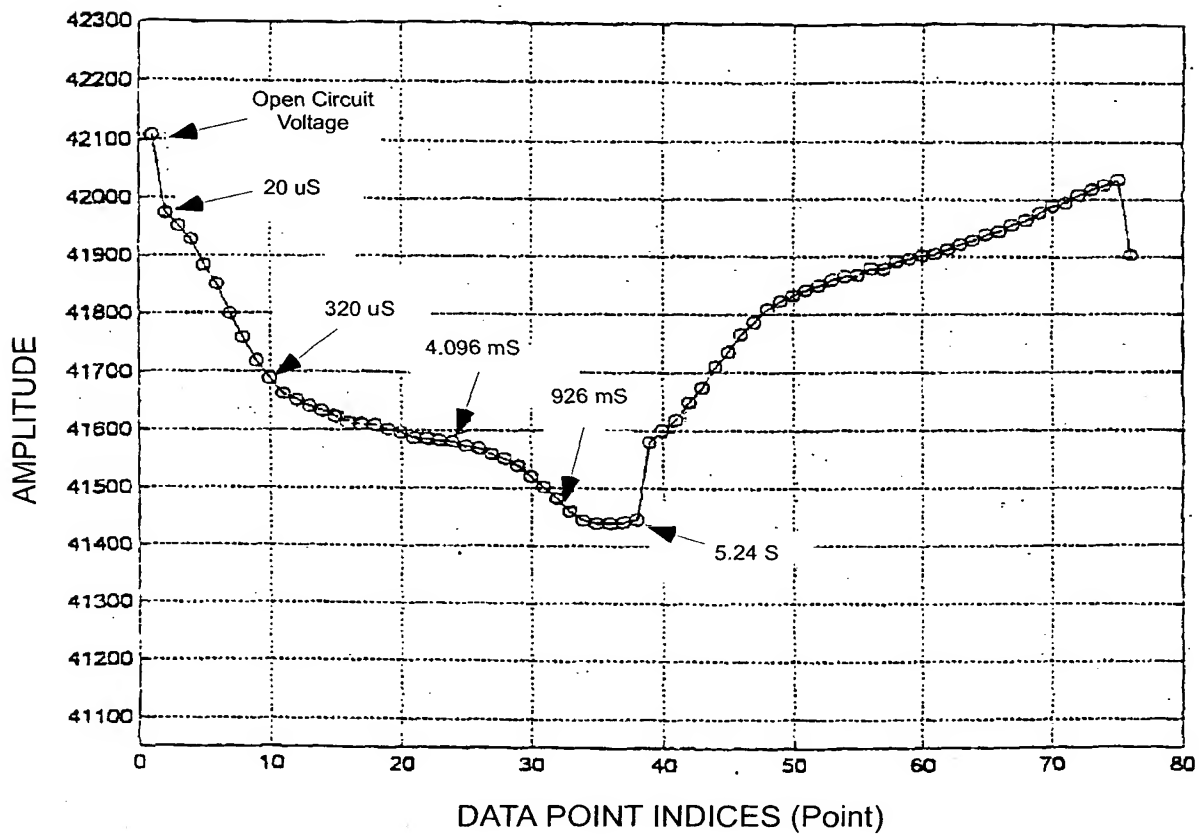


FIG. 18F

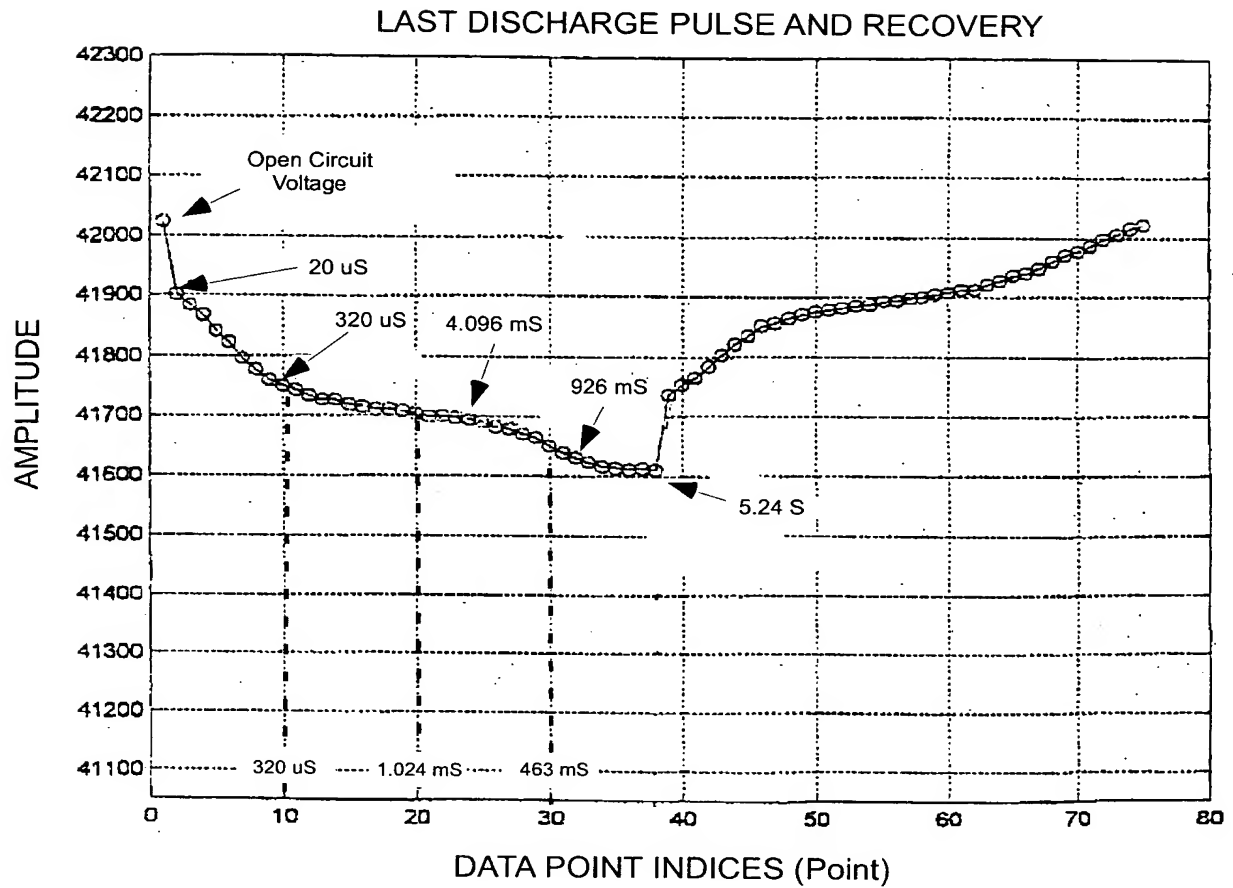


FIG. 18G

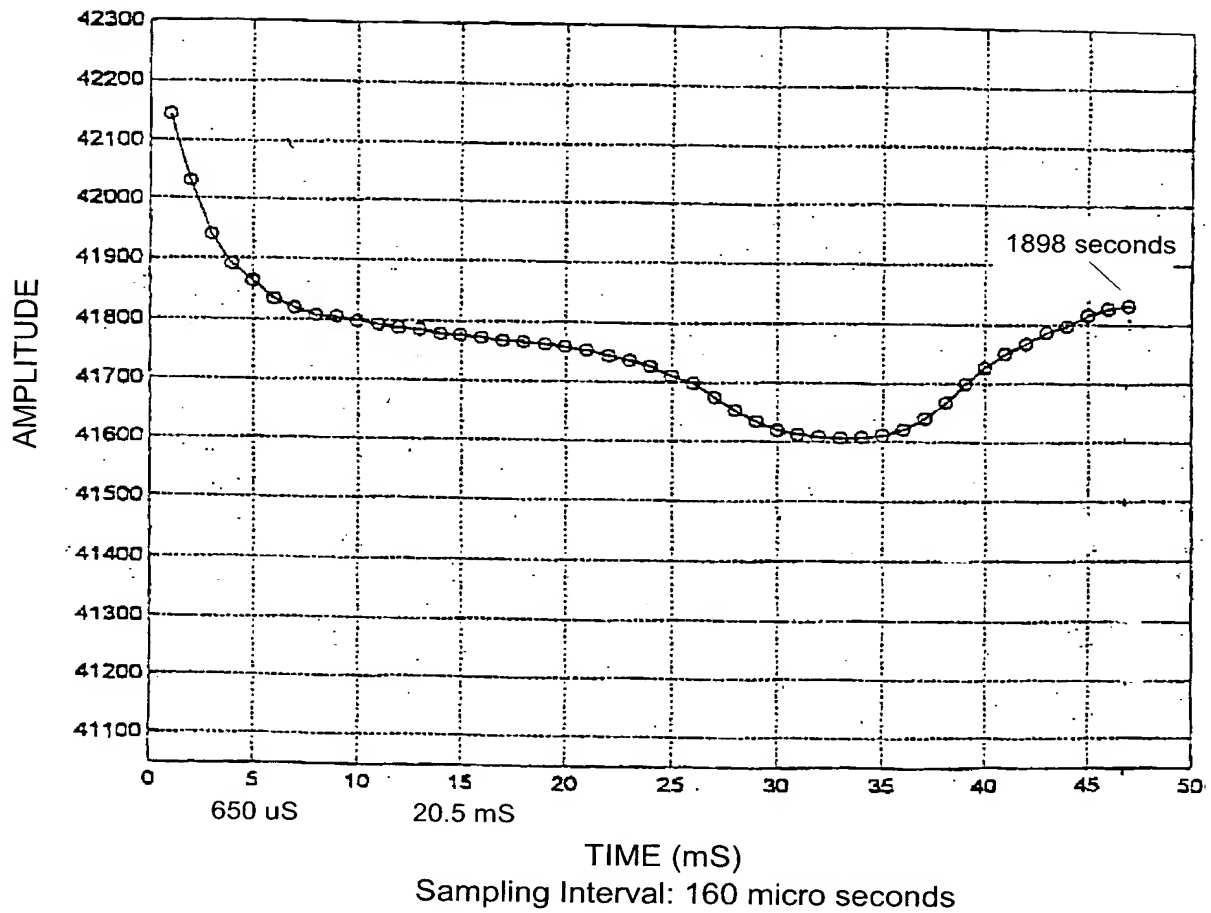


FIG. 19

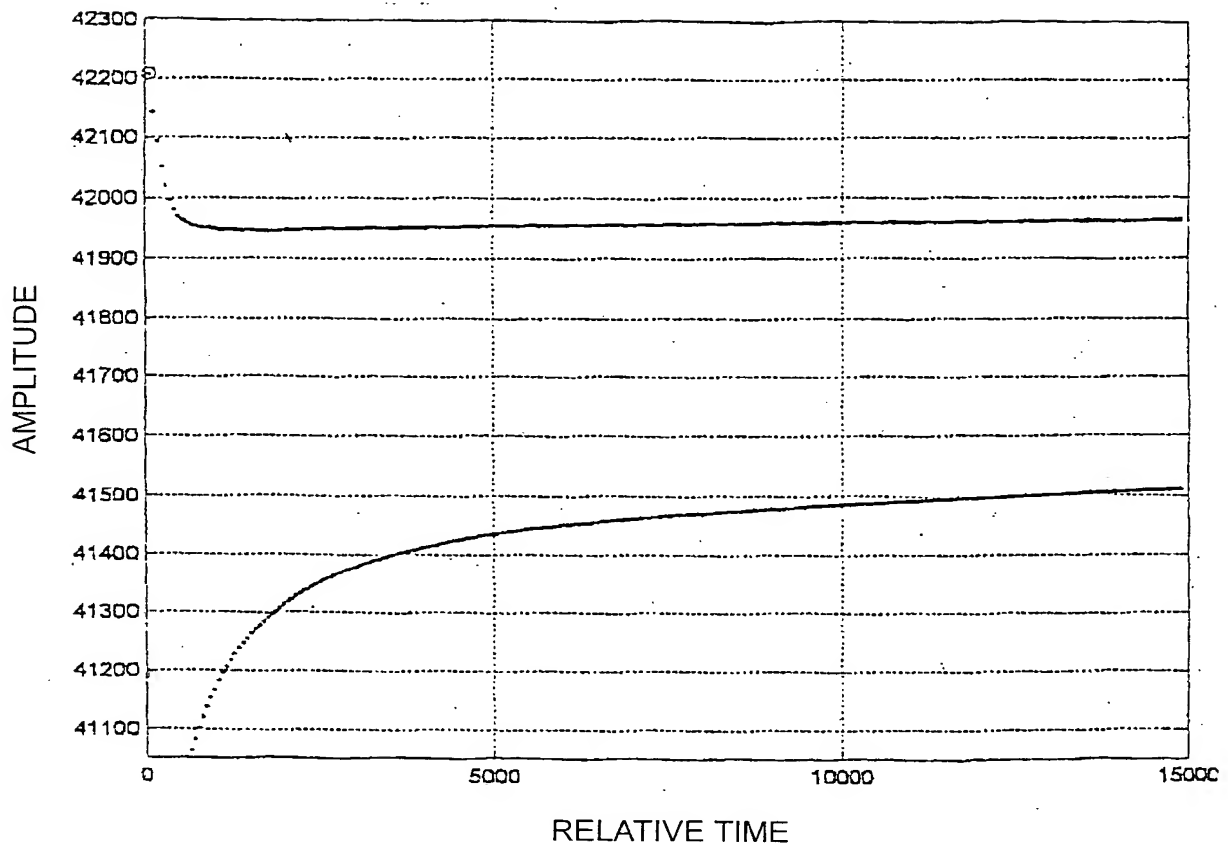


FIG. 20A

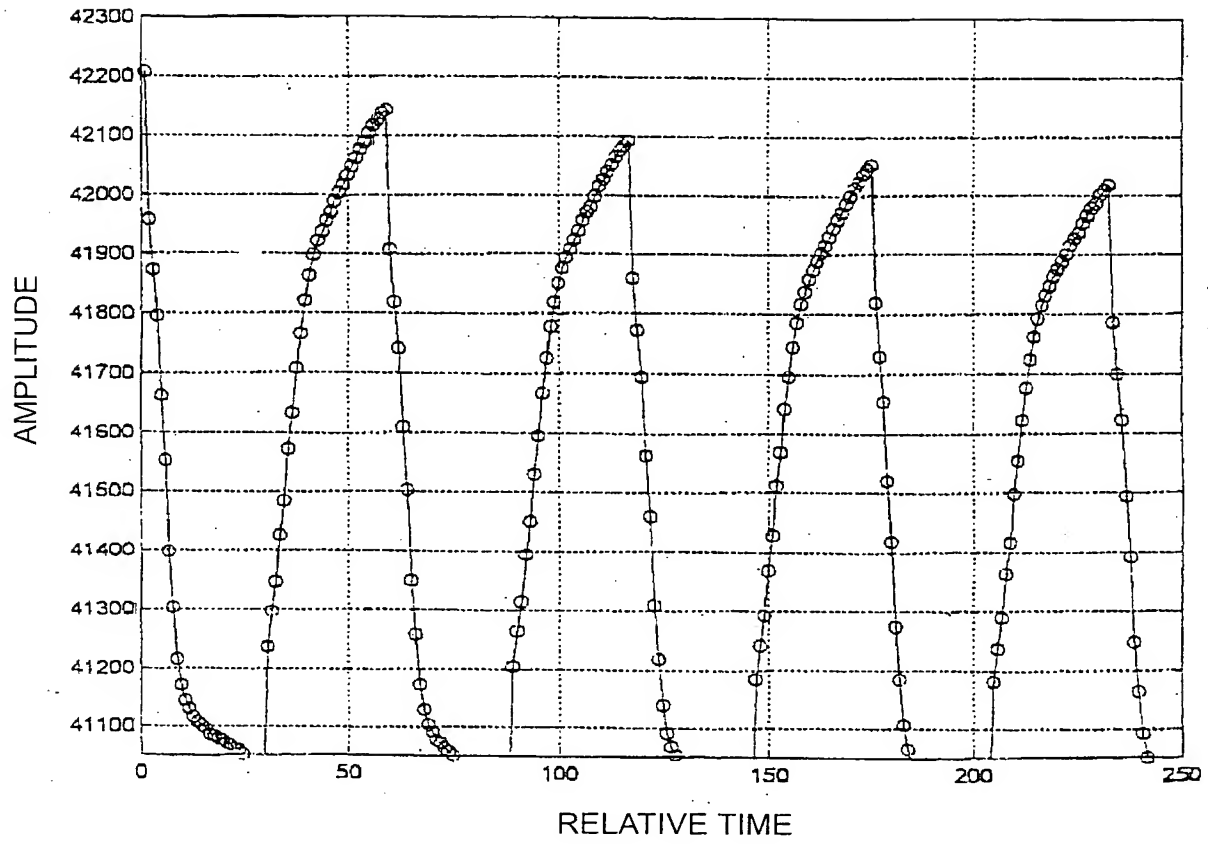


FIG. 20B

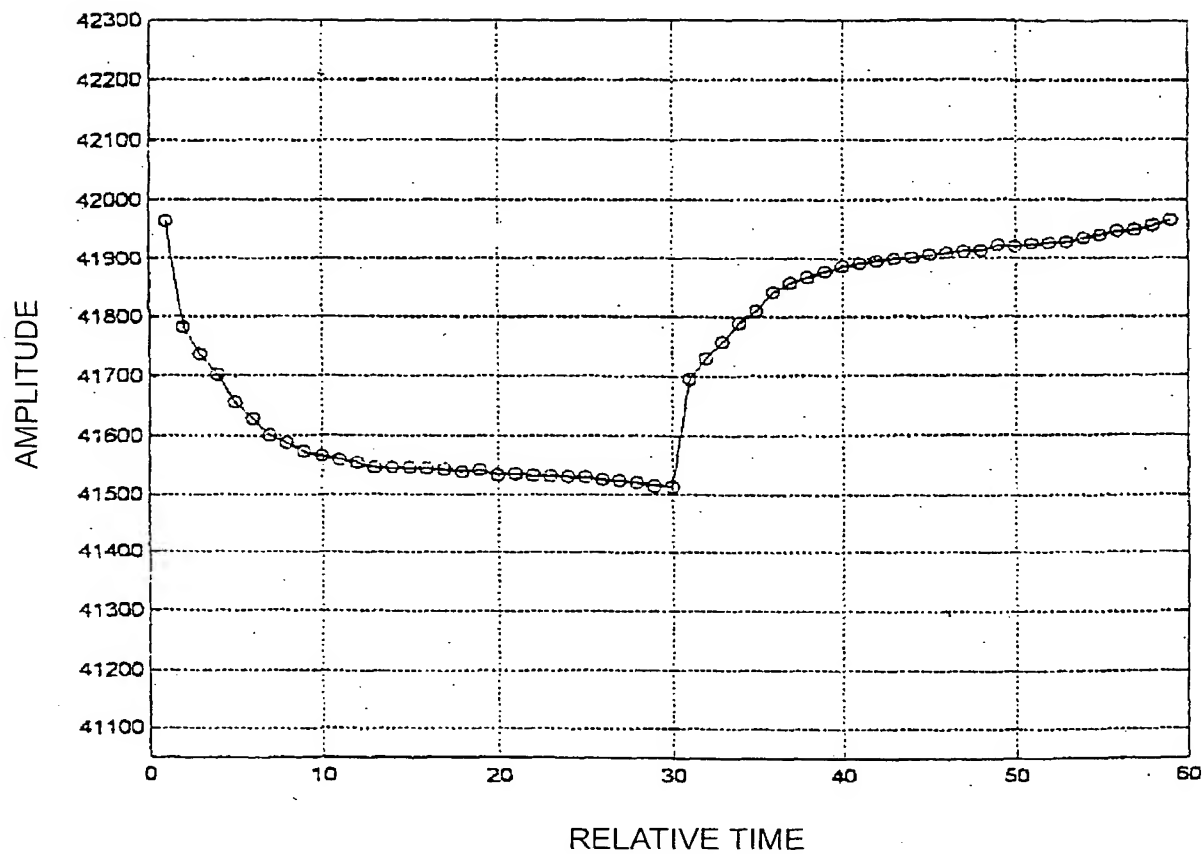


FIG. 20C

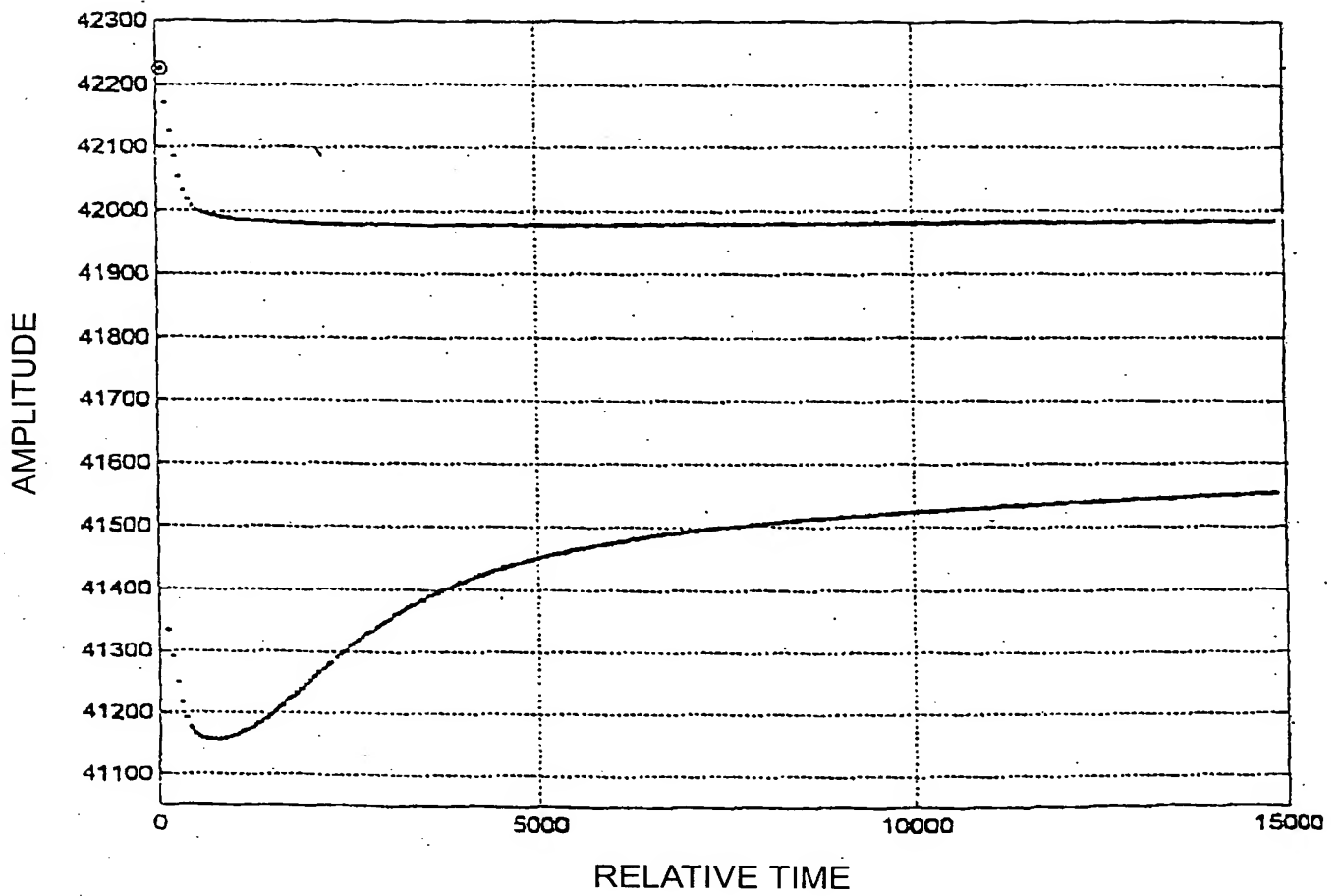


FIG. 21A

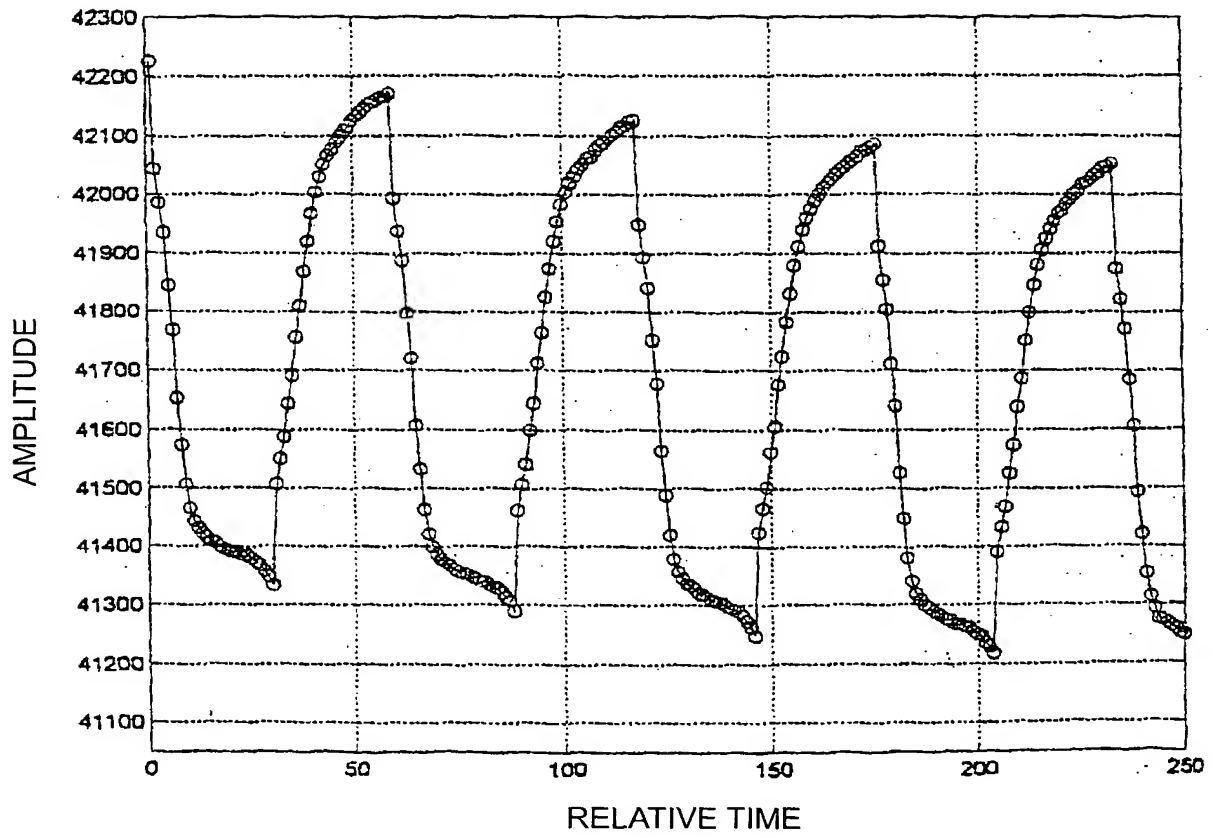


FIG. 21B

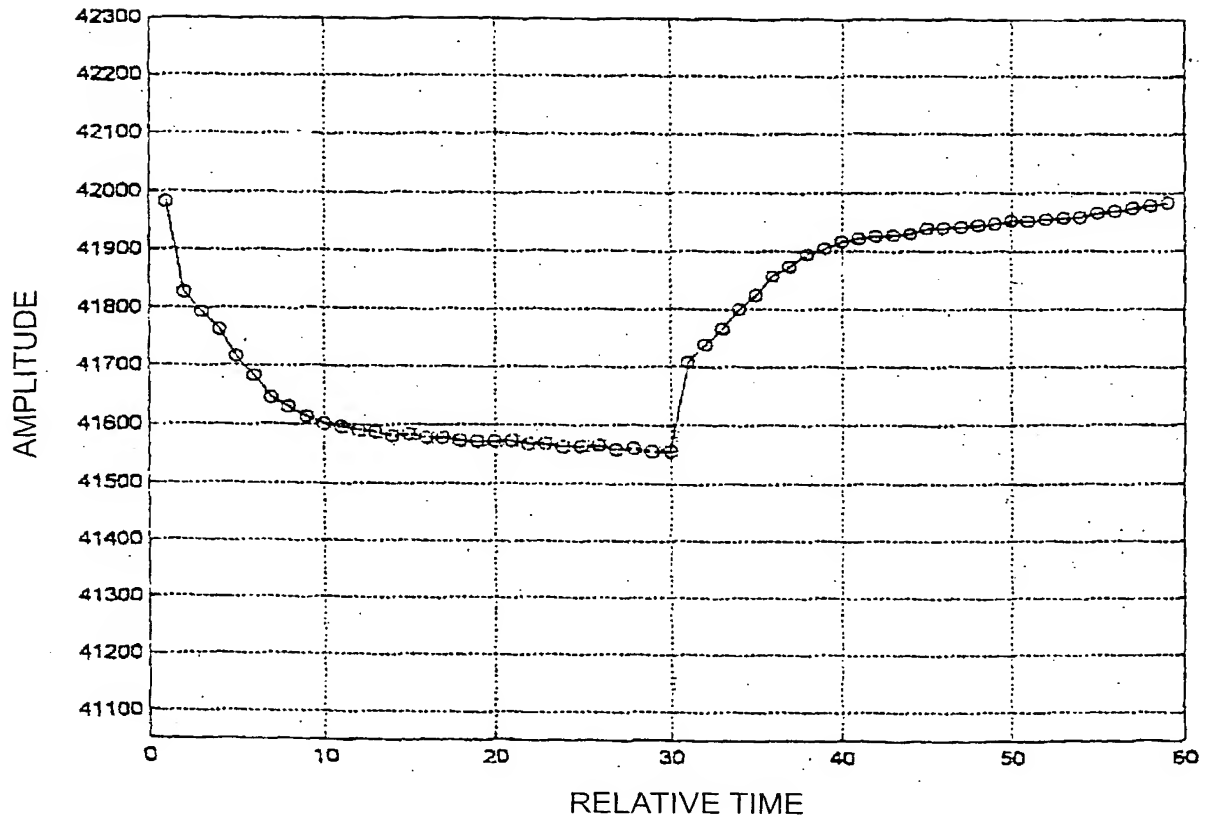


FIG. 21C

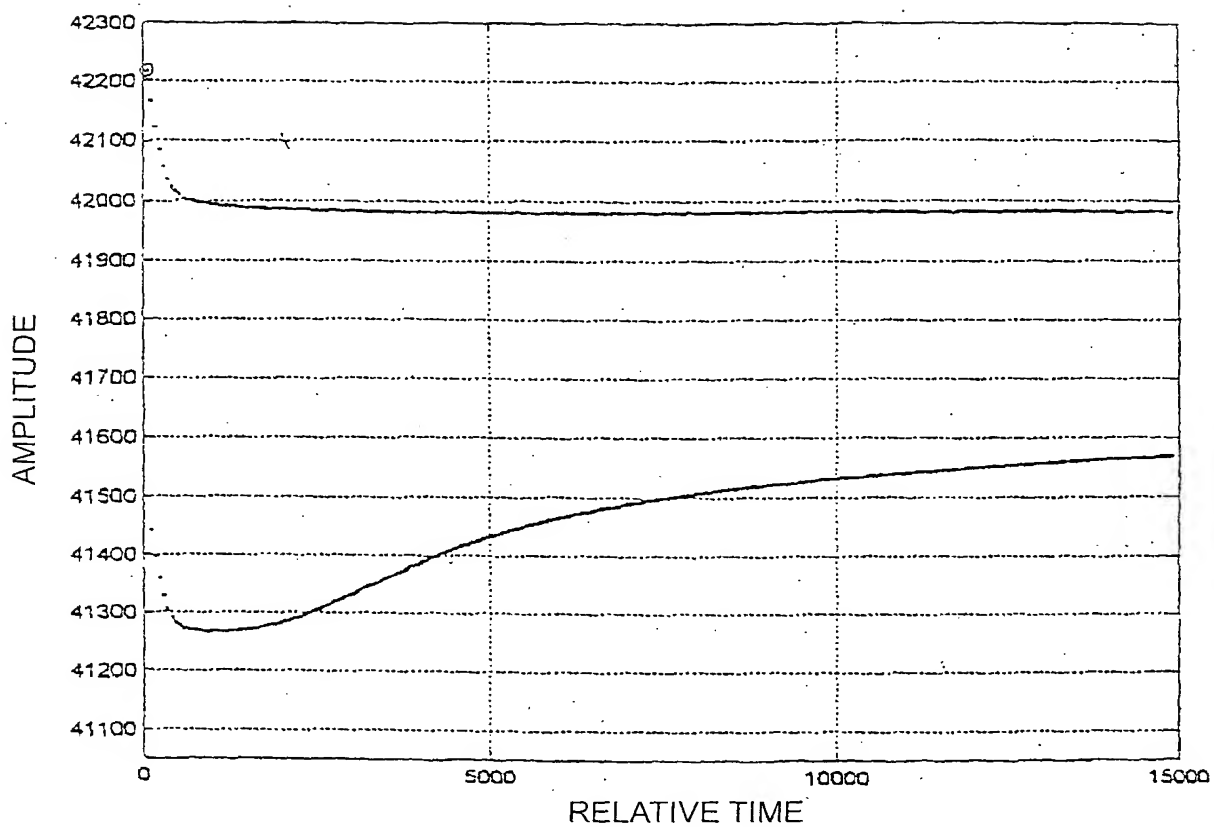


FIG. 22A

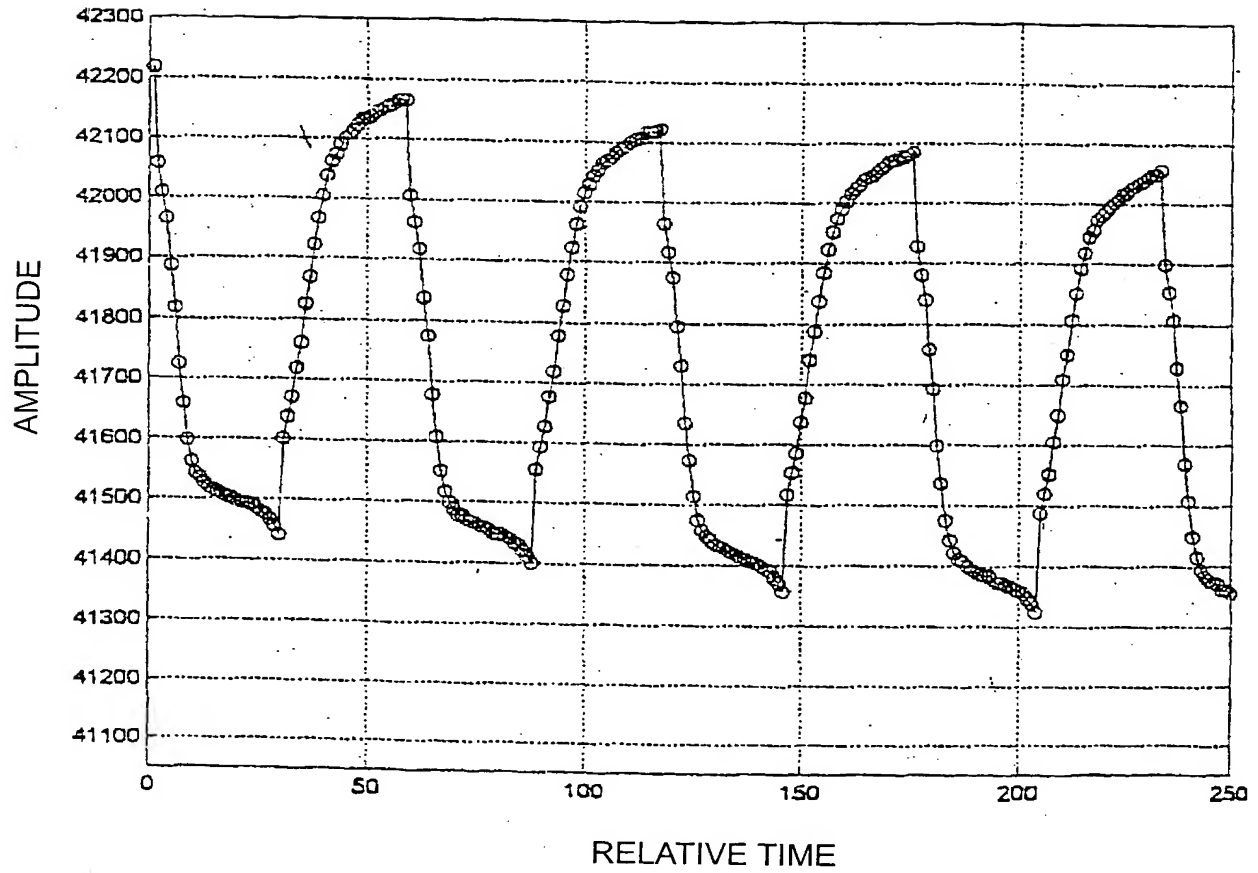


FIG. 22B

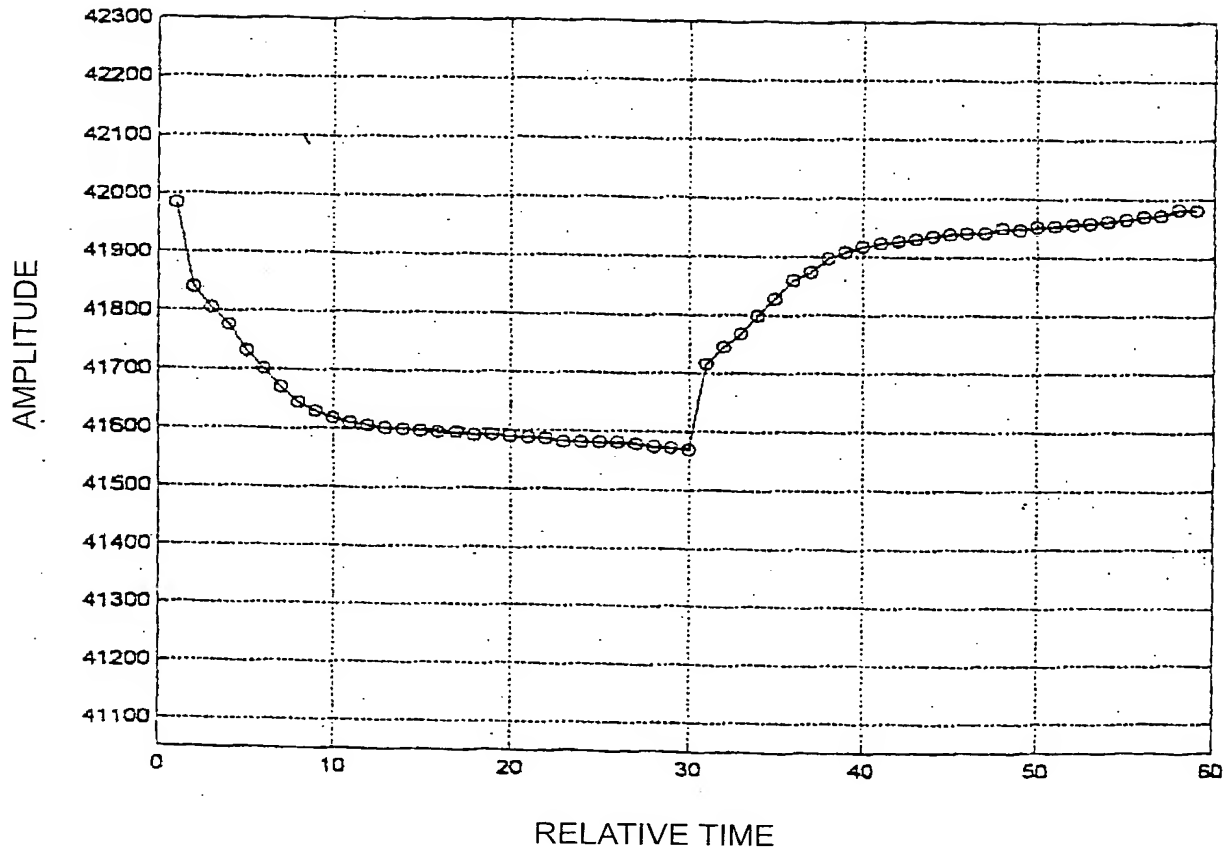


FIG. 22C

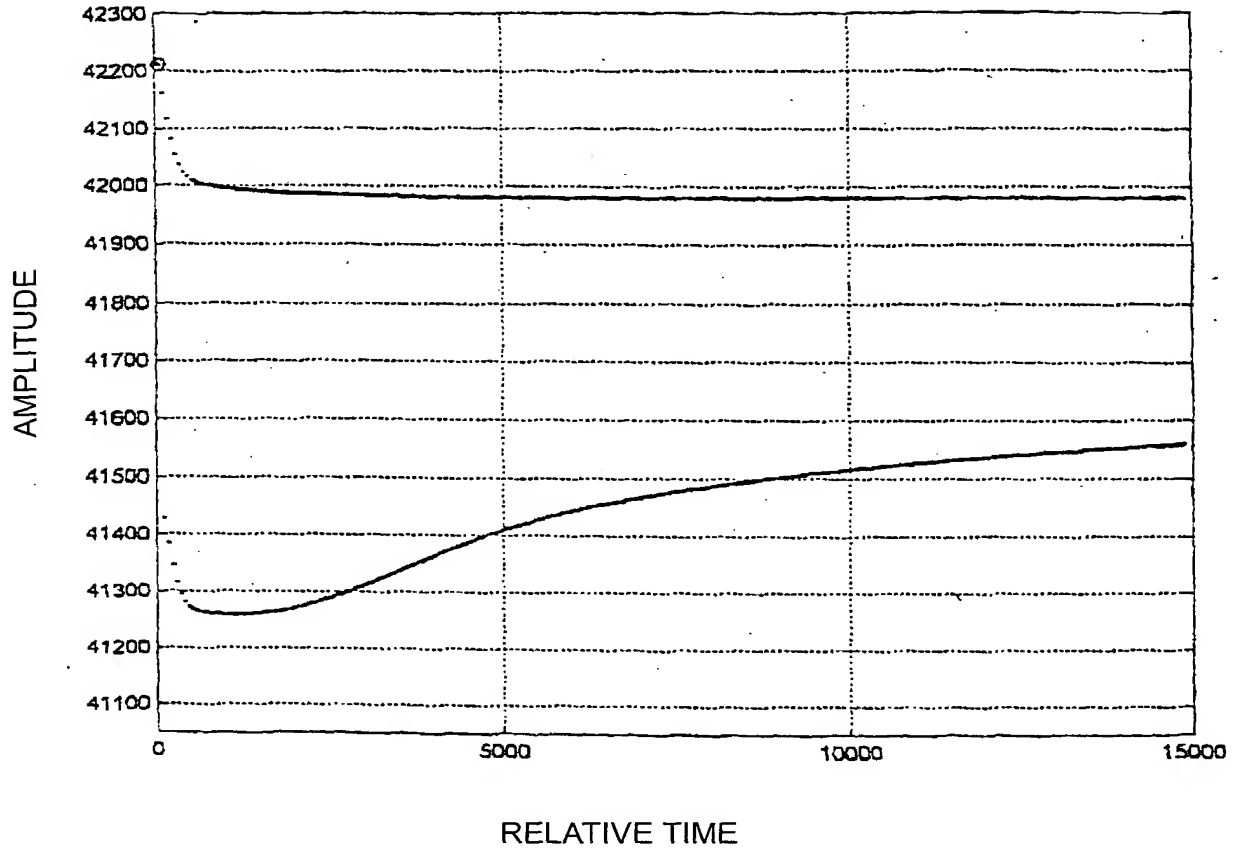


FIG. 23A

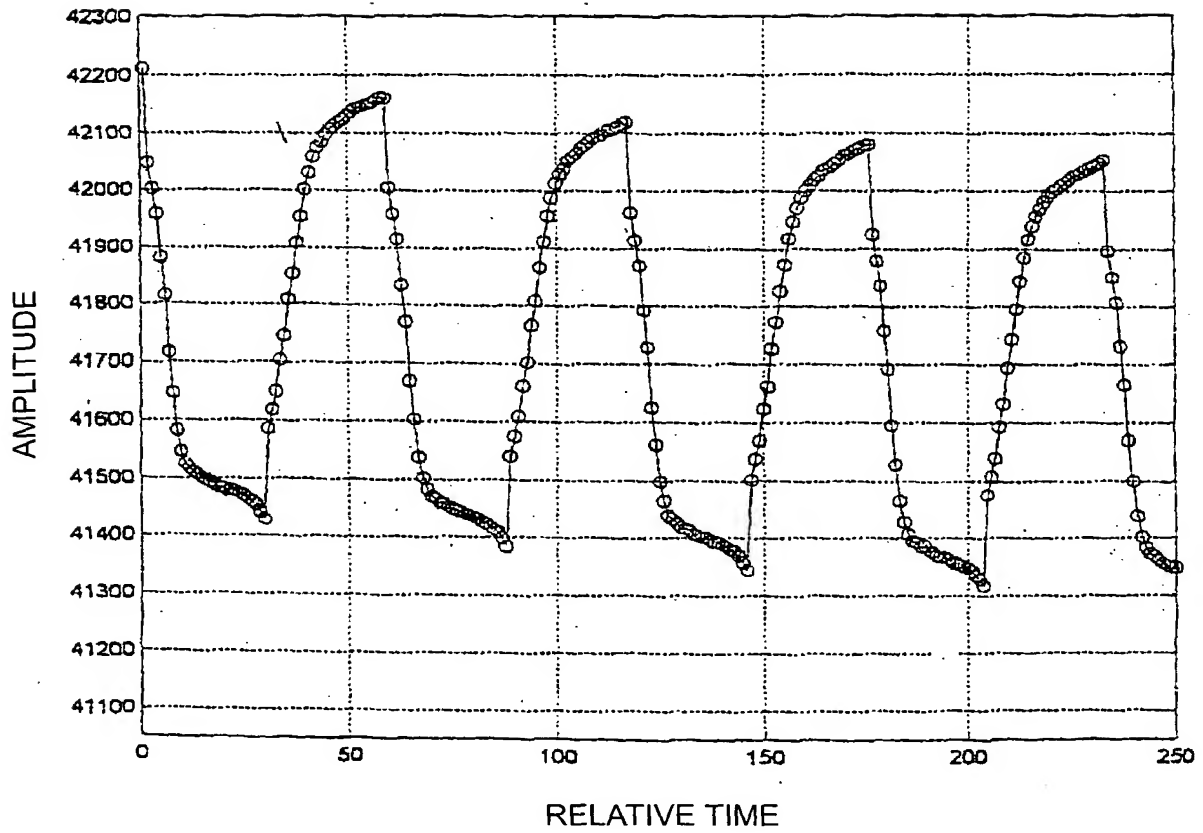


FIG. 23B

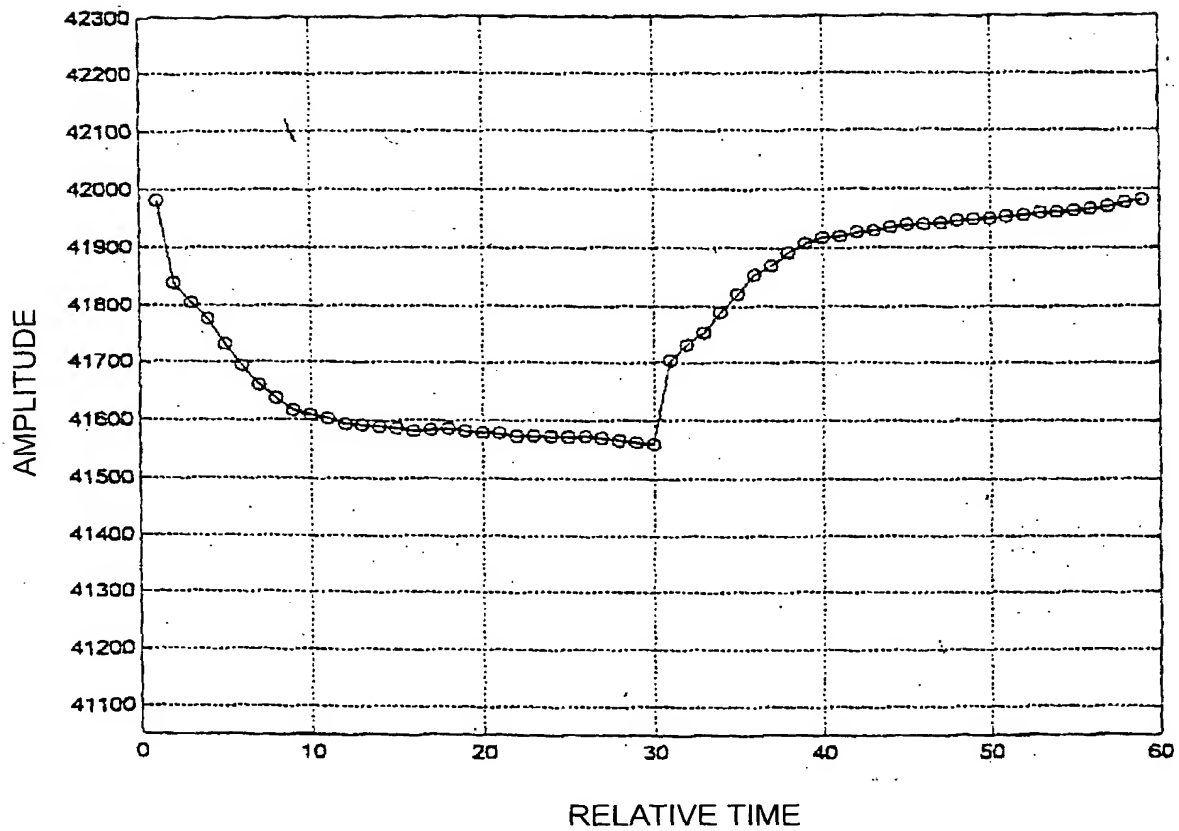


FIG. 23C

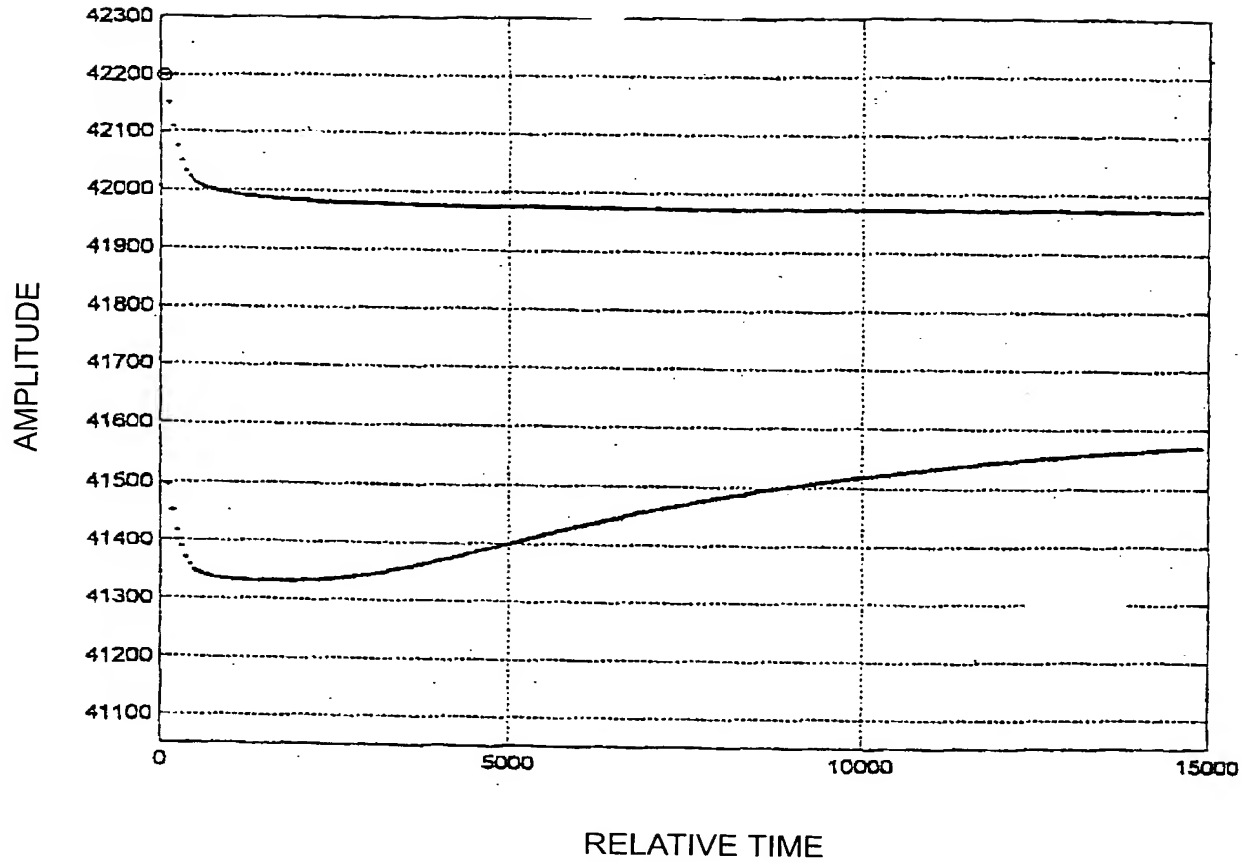


FIG. 24A

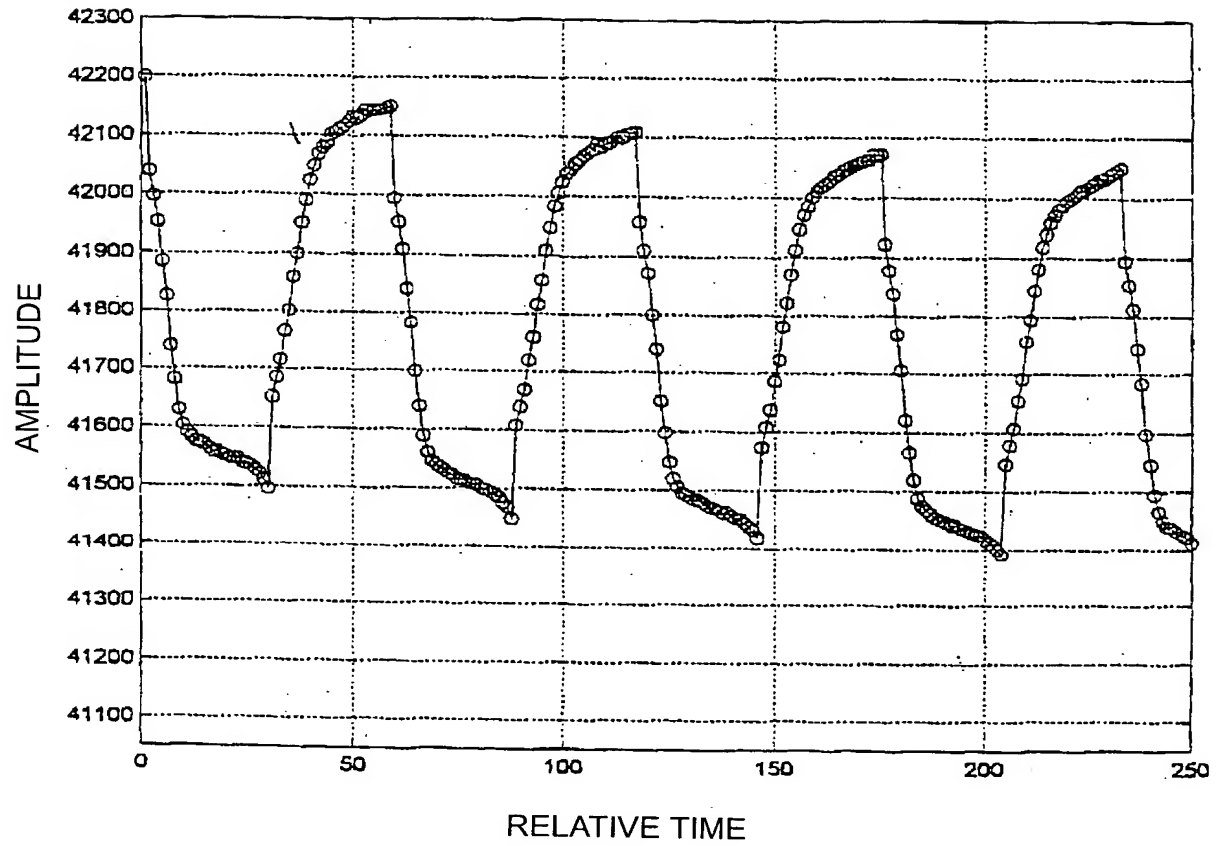


FIG. 24B

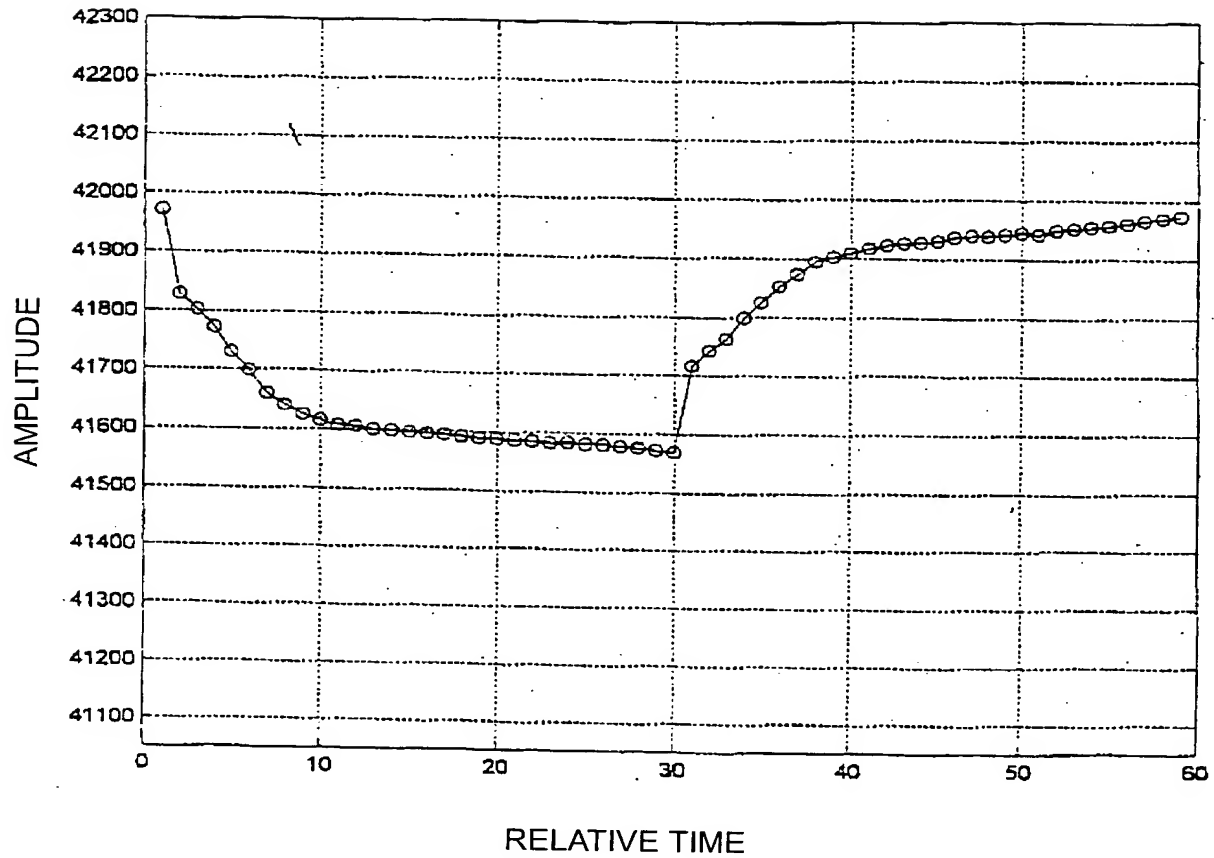


FIG. 24C

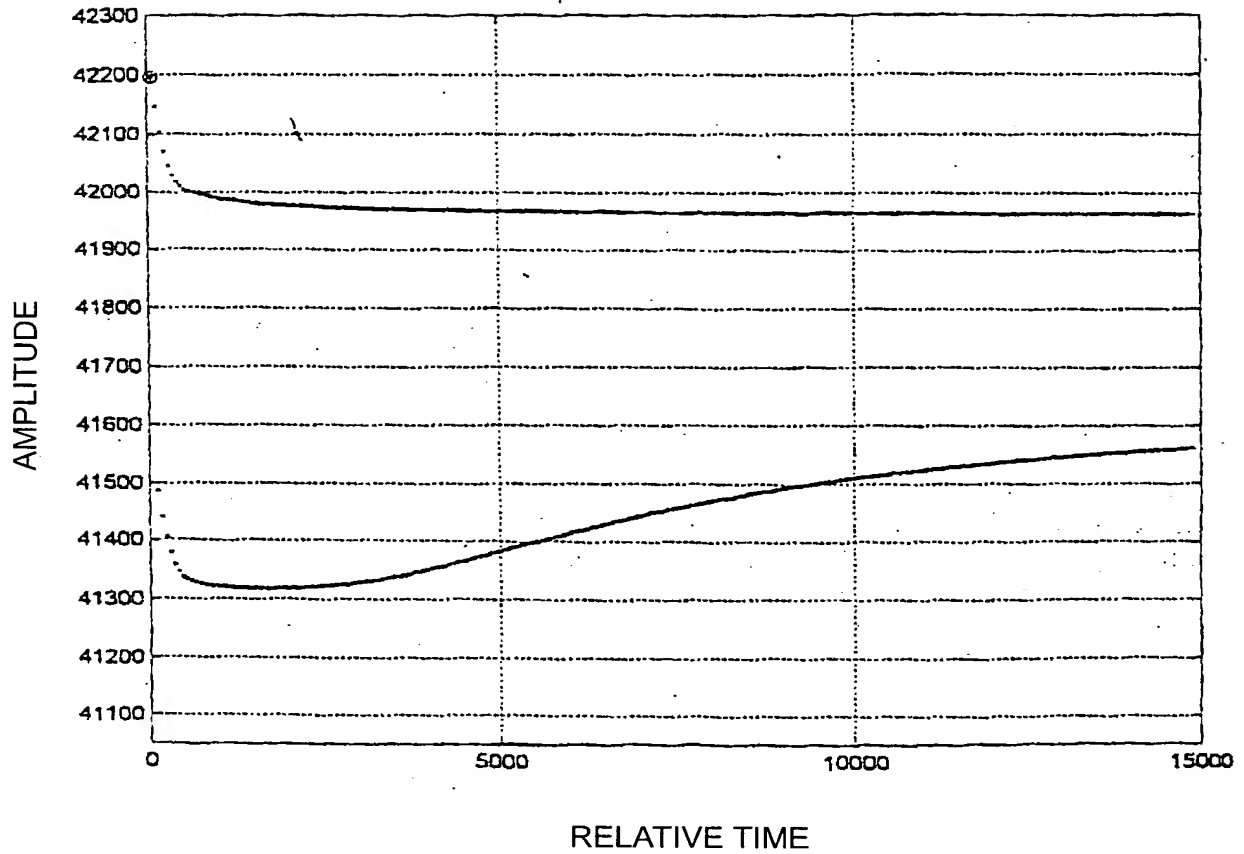


FIG. 25A

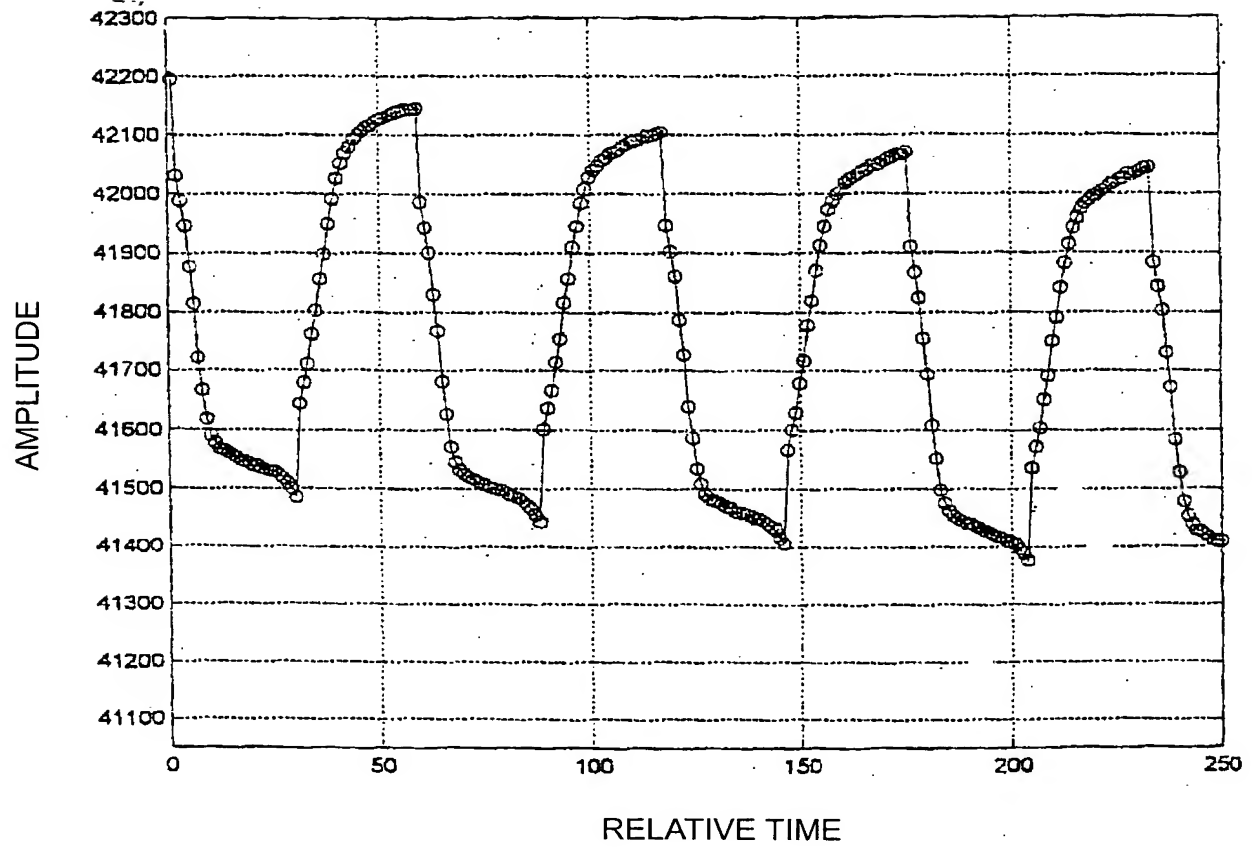


FIG. 25B

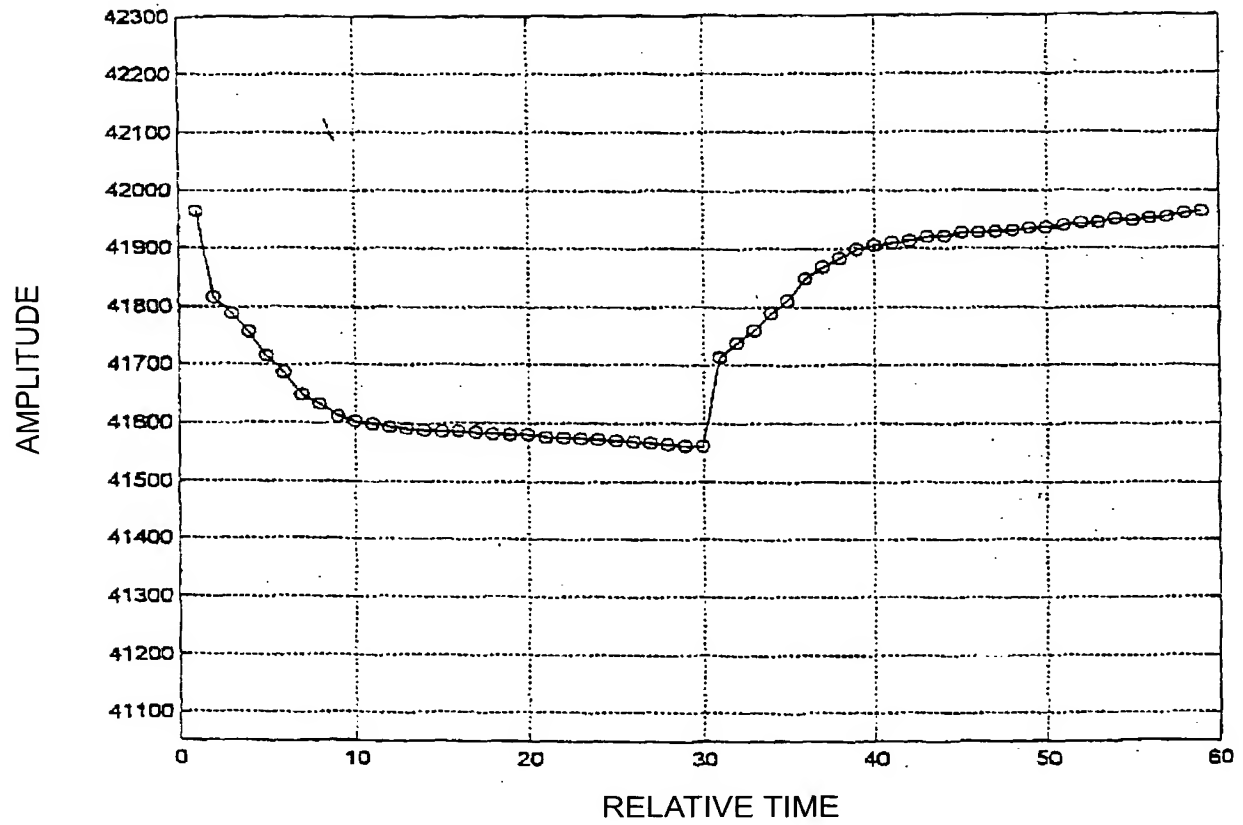


FIG. 25C

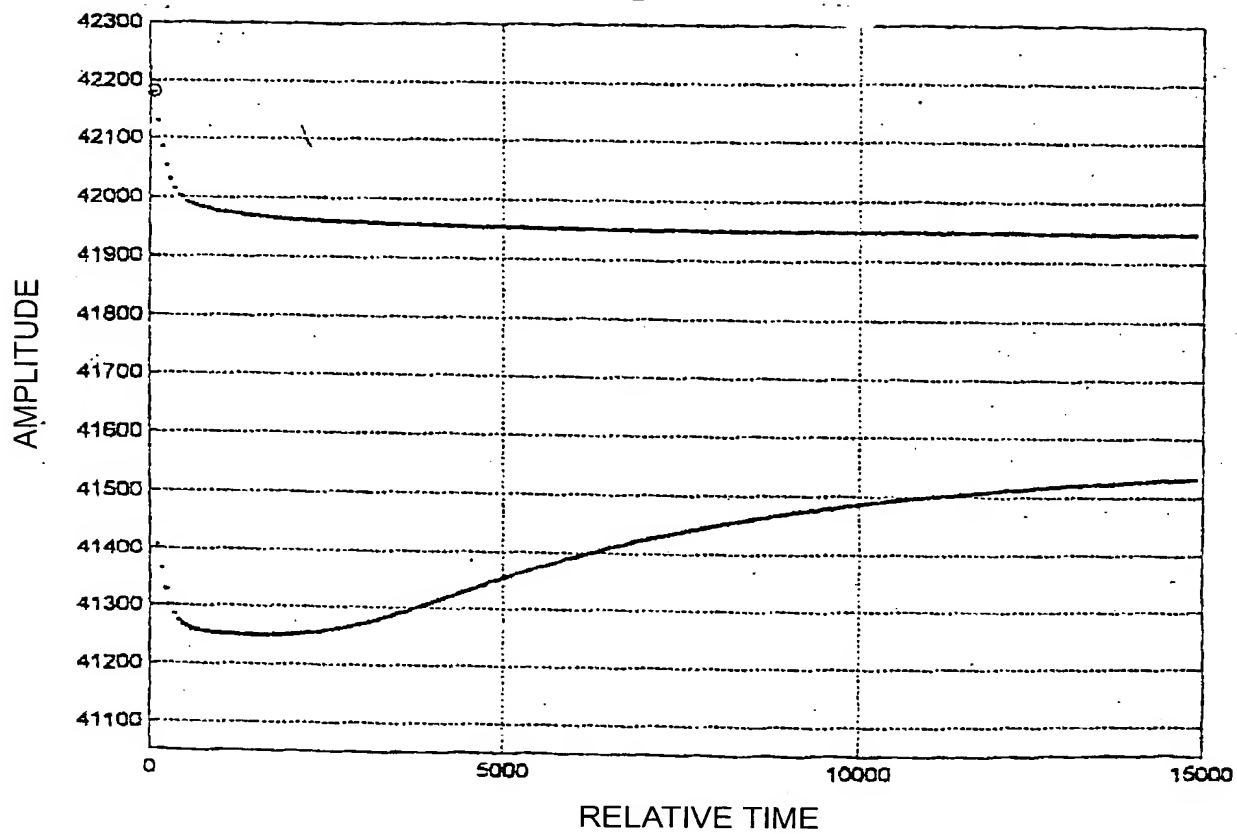


FIG. 26A

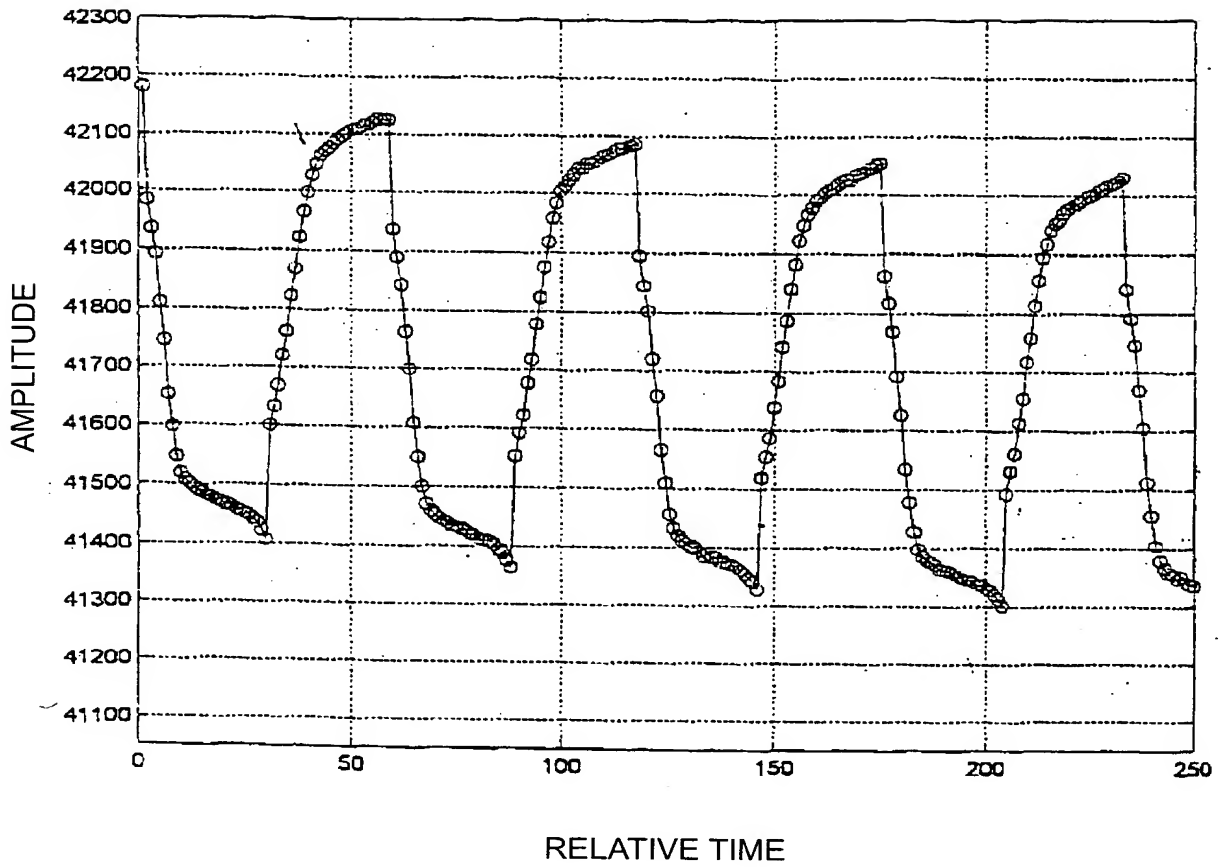


FIG. 26B

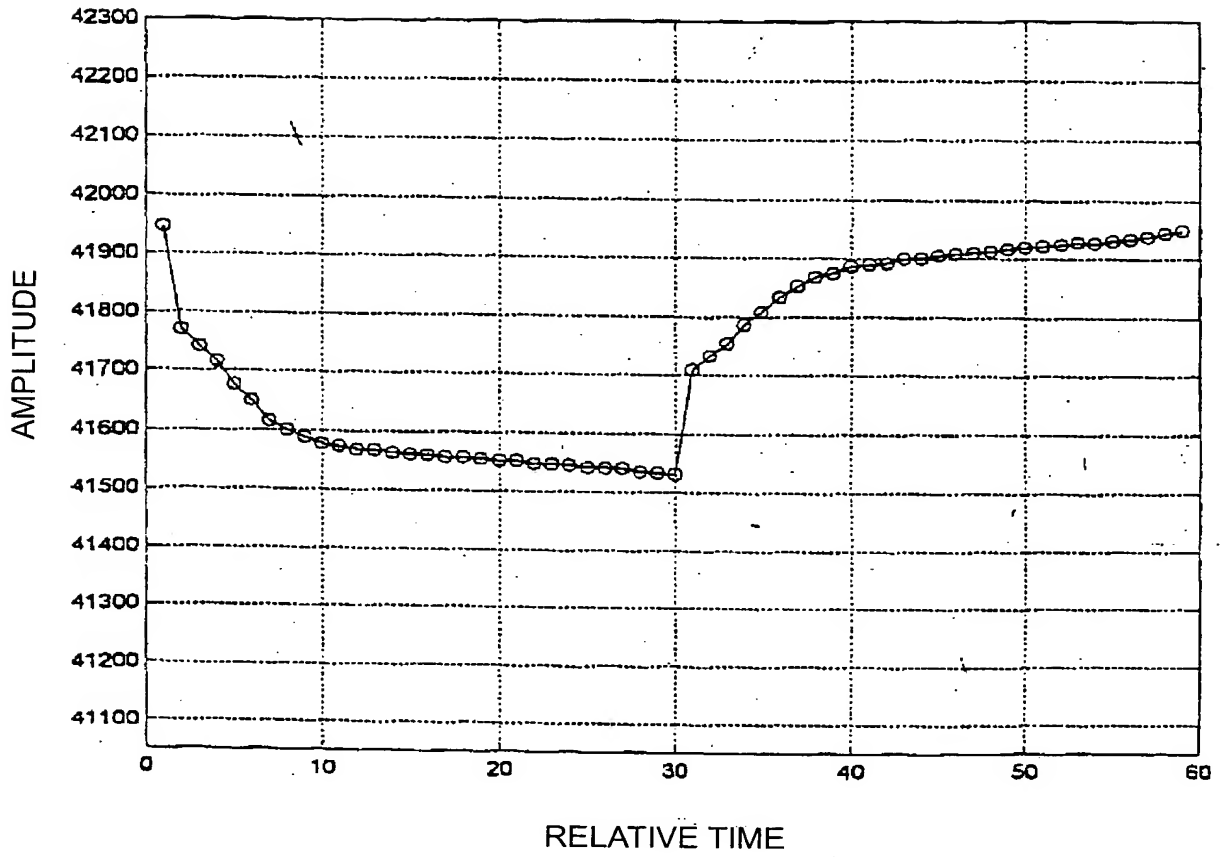


FIG. 26C

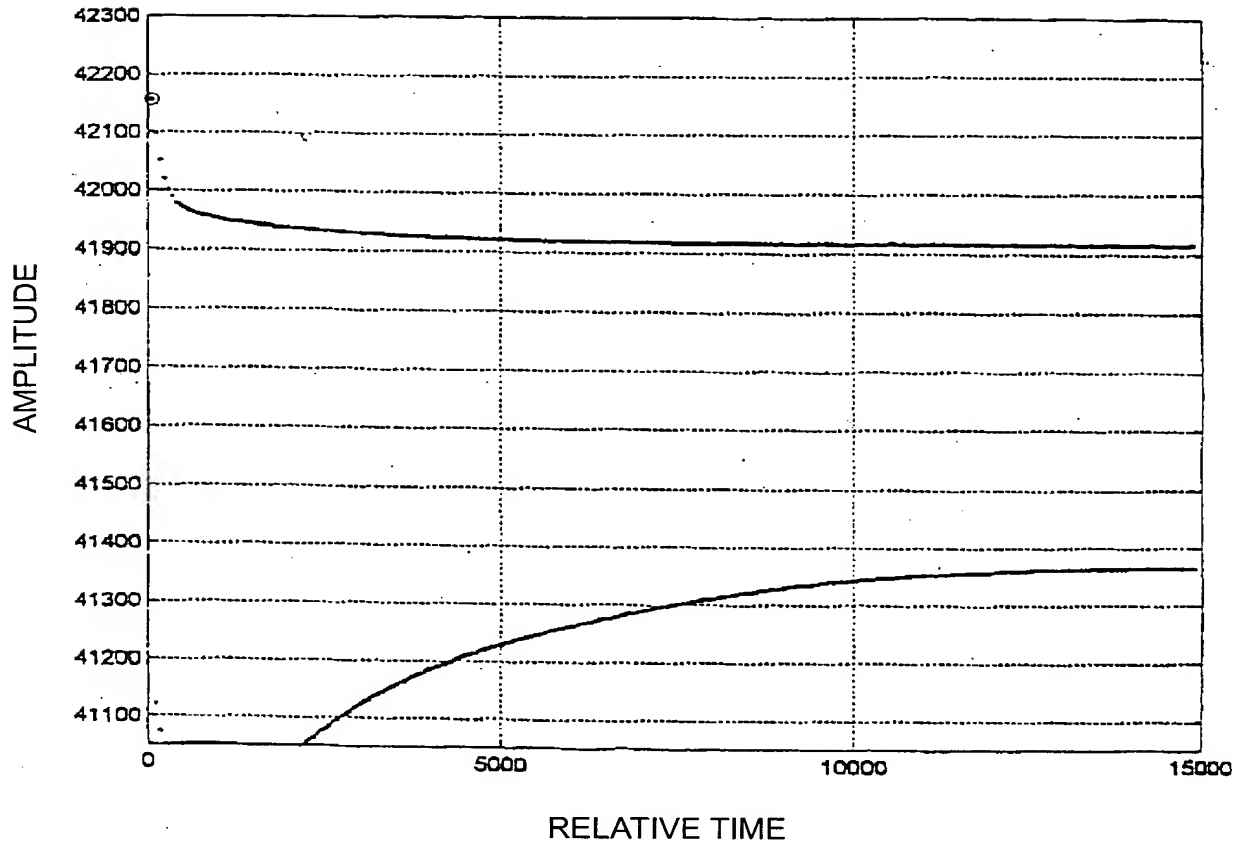


FIG. 27A

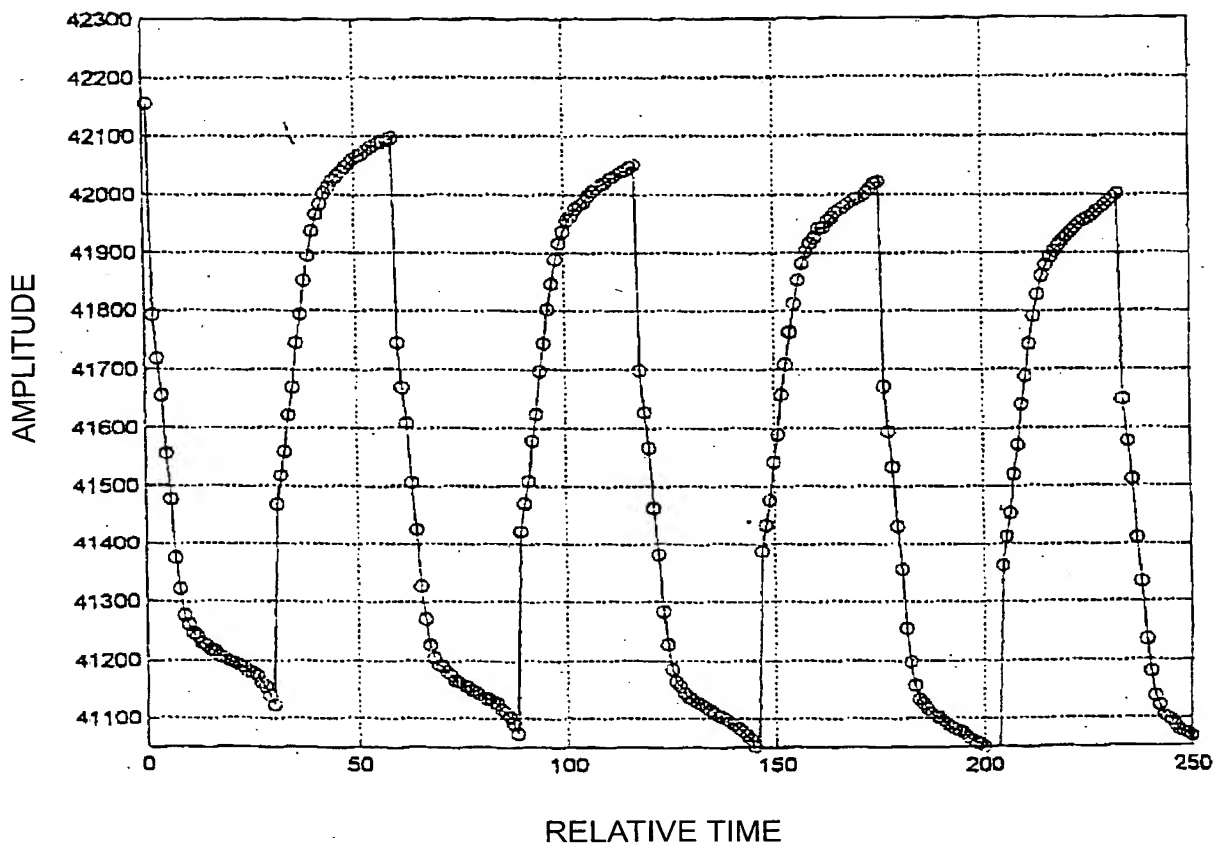


FIG. 27B

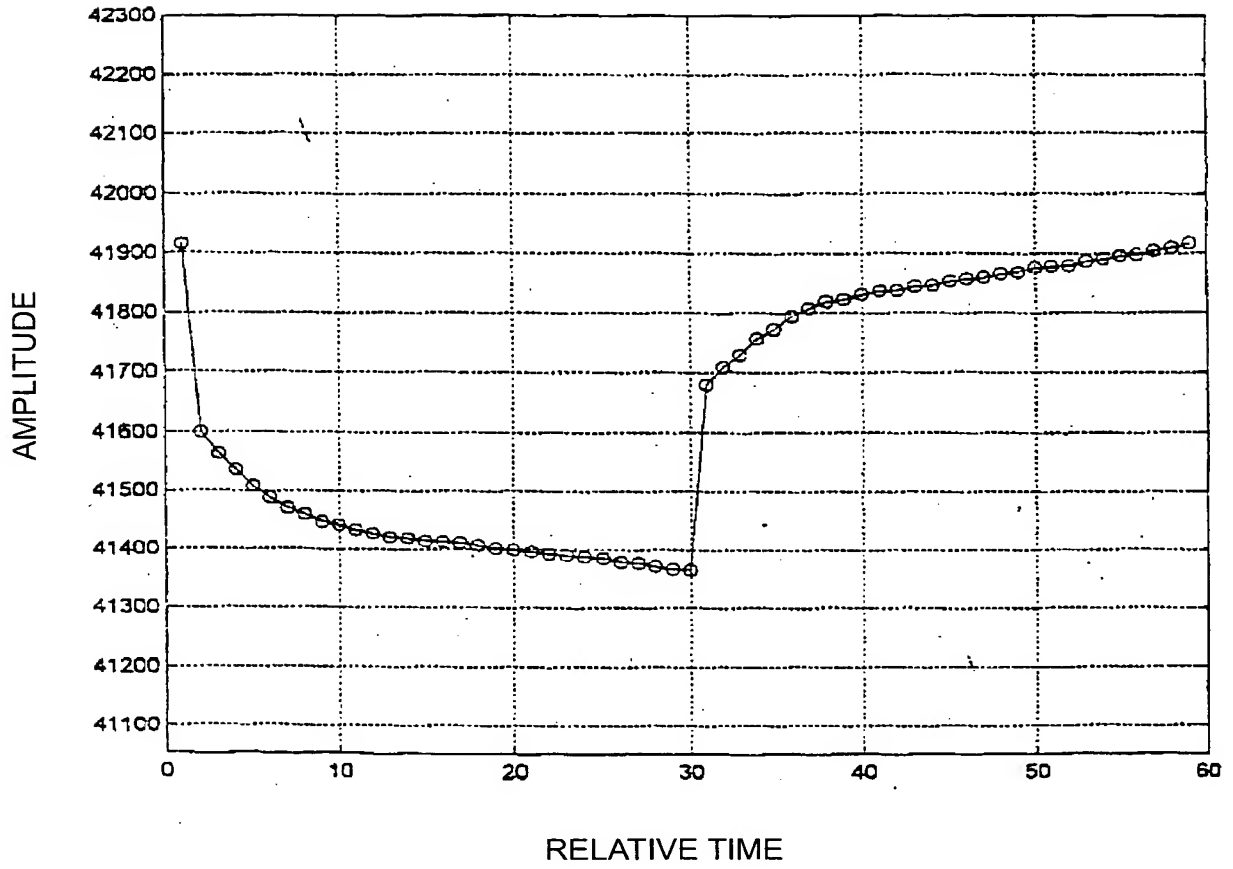
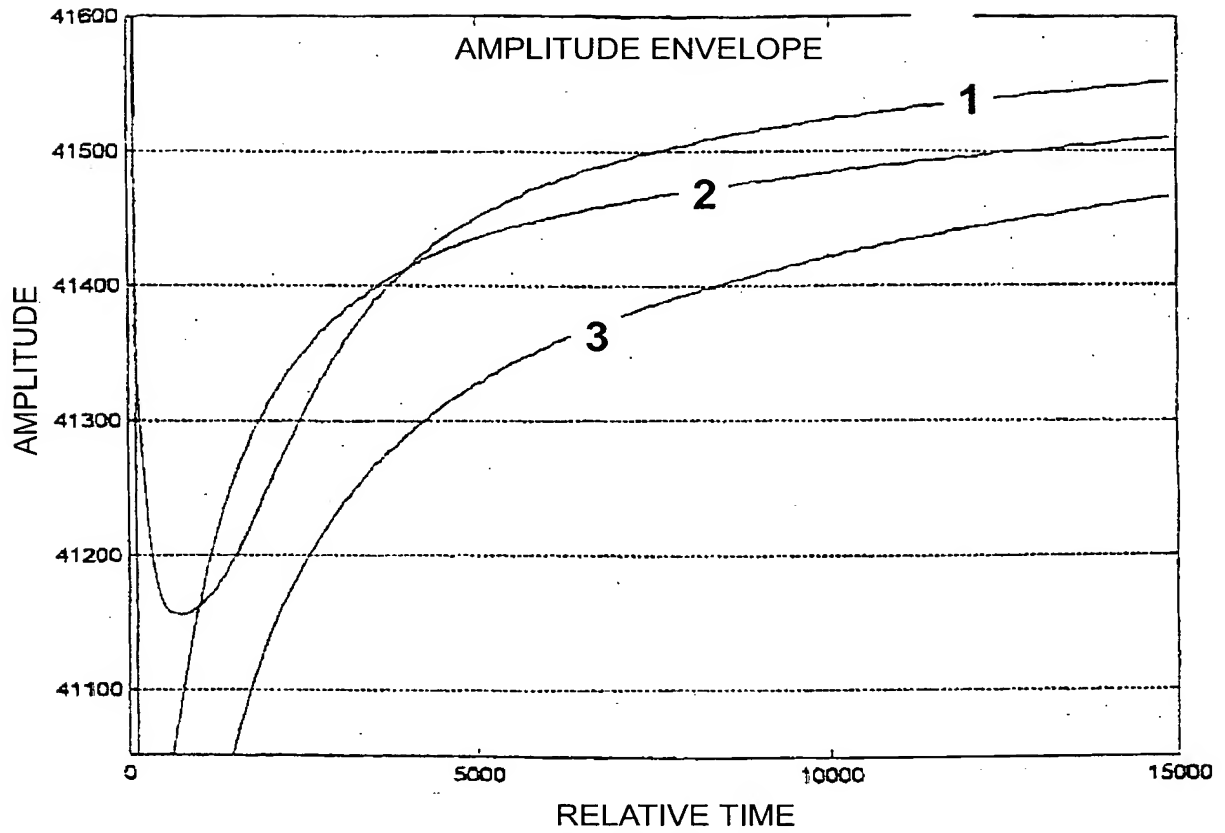
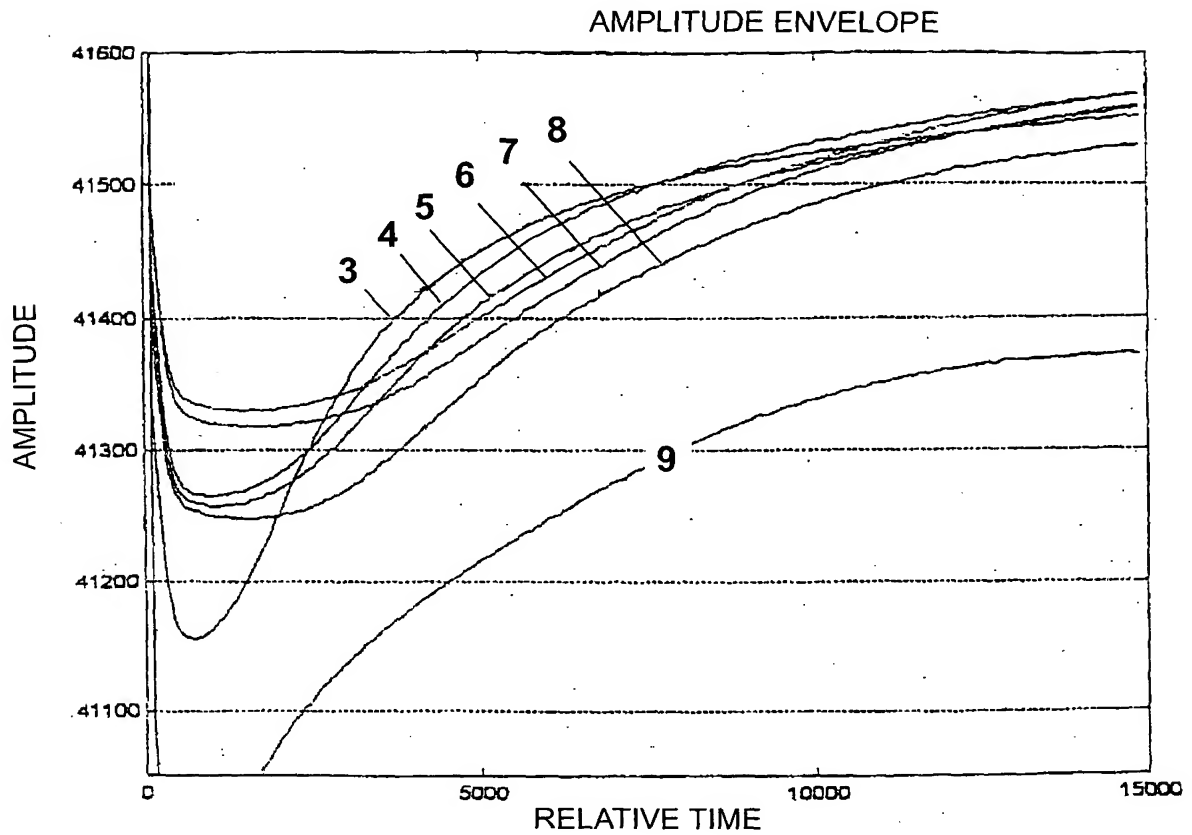


FIG. 27C



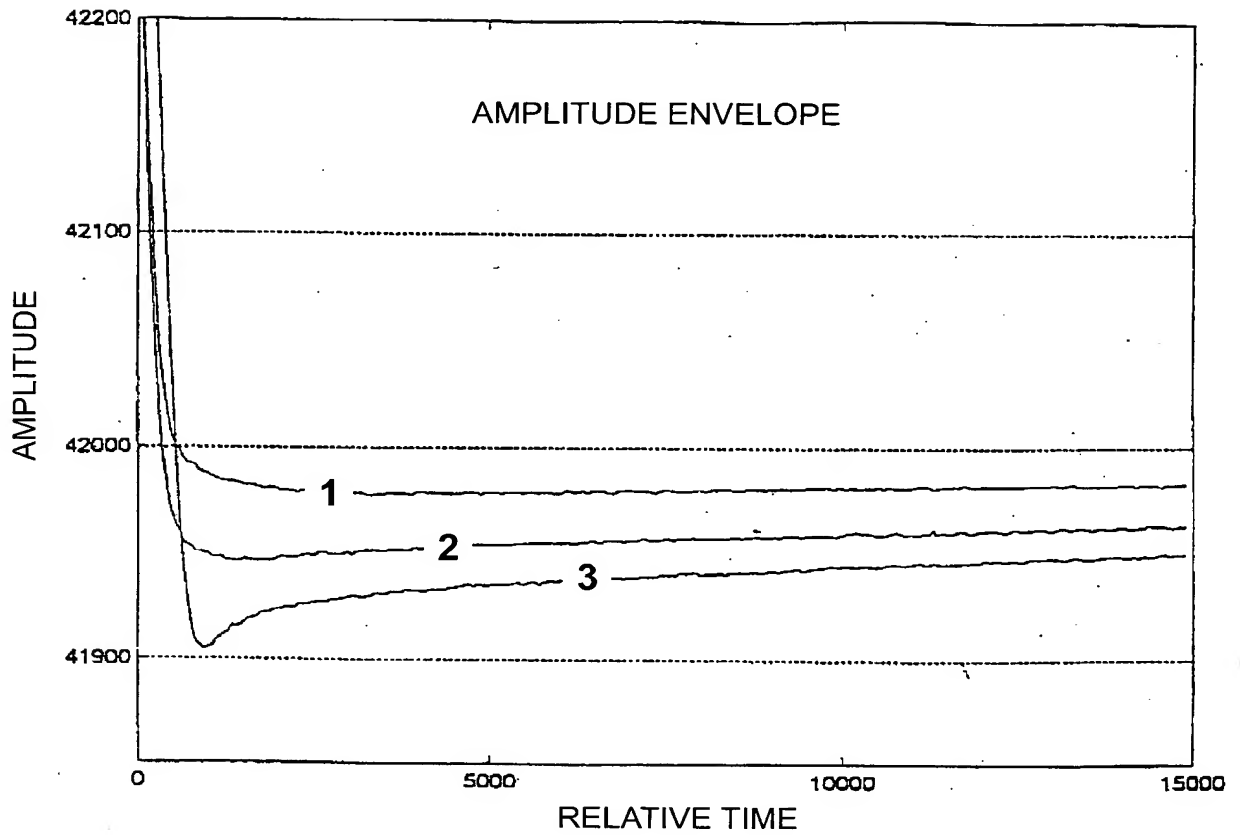
Increasing plot number indicates decreasing state of charge.

FIG. 28A



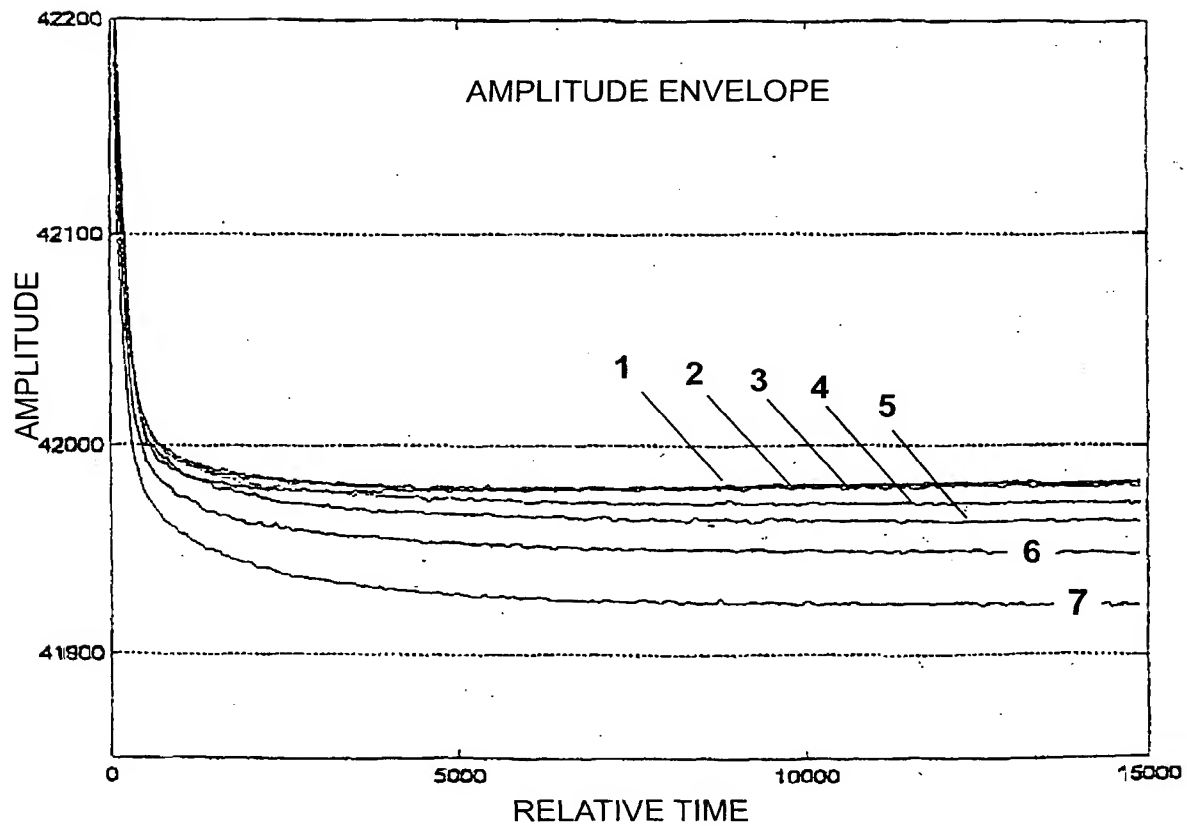
Increasing plot number indicates decreasing state of charge.

FIG. 28B



Increasing plot number indicates decreasing state of charge.

FIG. 29A



Increasing plot number indicates decreasing state of charge.

FIG. 29B